

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV010419\
 Data File : VV009162.D
 Acq On : 04 Jan 2019 15:16
 Operator : SY/MD
 Sample : VSTDICV025
 Misc : 5.00 G/10ML/MSVOA V/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VICV69

Quant Time: Jan 05 04:55:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM010419S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jan 05 04:53:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	187689	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	172008	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	87379	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	25838	20.13	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	80.52%
7) Chloroethane-d5	1.58	69	29188	23.44	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	93.76%
10) 1,1-Dichloroethene-d2	2.13	63	95297	22.21	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	88.84%
20) 2-Butanone-d5	3.96	46	40201	44.51	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	89.02%
24) Chloroform-d	4.40	84	88408	22.37	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	89.48%
26) 1,2-Dichloroethane-d4	5.08	65	48264	22.83	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	91.32%
29) Benzene-d6	5.10	84	169519	22.12	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	88.48%
33) 1,2-Dichloropropane-d6	6.12	67	49911	22.72	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	90.88%
37) Toluene-d8	7.36	98	159041	22.00	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	88.00%
38) trans-1,3-Dichloropropene-	7.66	79	23329	22.38	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	89.52%
39) 2-Hexanone-d5	8.14	63	23330	44.99	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	89.98%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	55607	23.03	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	92.12%
61) 1,2-Dichlorobenzene-d4	11.67	152	63836	21.62	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	86.48%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	66601	22.075	ug/L	98
3) Chloromethane	1.25	50	45569	22.301	ug/L	100
5) Vinyl chloride	1.32	62	49049	22.418	ug/L	100
6) Bromomethane	1.54	94	34580	22.438	ug/L	96
8) Chloroethane	1.60	64	33654	24.959	ug/L	99
9) Trichlorofluoromethane	1.77	101	90100	22.462	ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	60981	22.827	ug/L	97
12) 1,1-Dichloroethene	2.14	96	52511	22.665	ug/L	96
13) Acetone	2.22	43	56151	43.869	ug/L	99
14) Carbon disulfide	2.32	76	147551	22.288	ug/L	99
15) Methyl Acetate	2.47	43	37256	23.524	ug/L	100
16) Methylene chloride	2.53	84	57698	20.577	ug/L	97
17) Methyl tert-butyl Ether	2.81	73	137584	24.245	ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	56824	23.144	ug/L	97
19) 1,1-Dichloroethane	3.23	63	96582	23.688	ug/L	98
21) 2-Butanone	4.04	43	51469	45.973	ug/L #	89
22) cis-1,2-Dichloroethene	3.96	96	61180	23.309	ug/L	96

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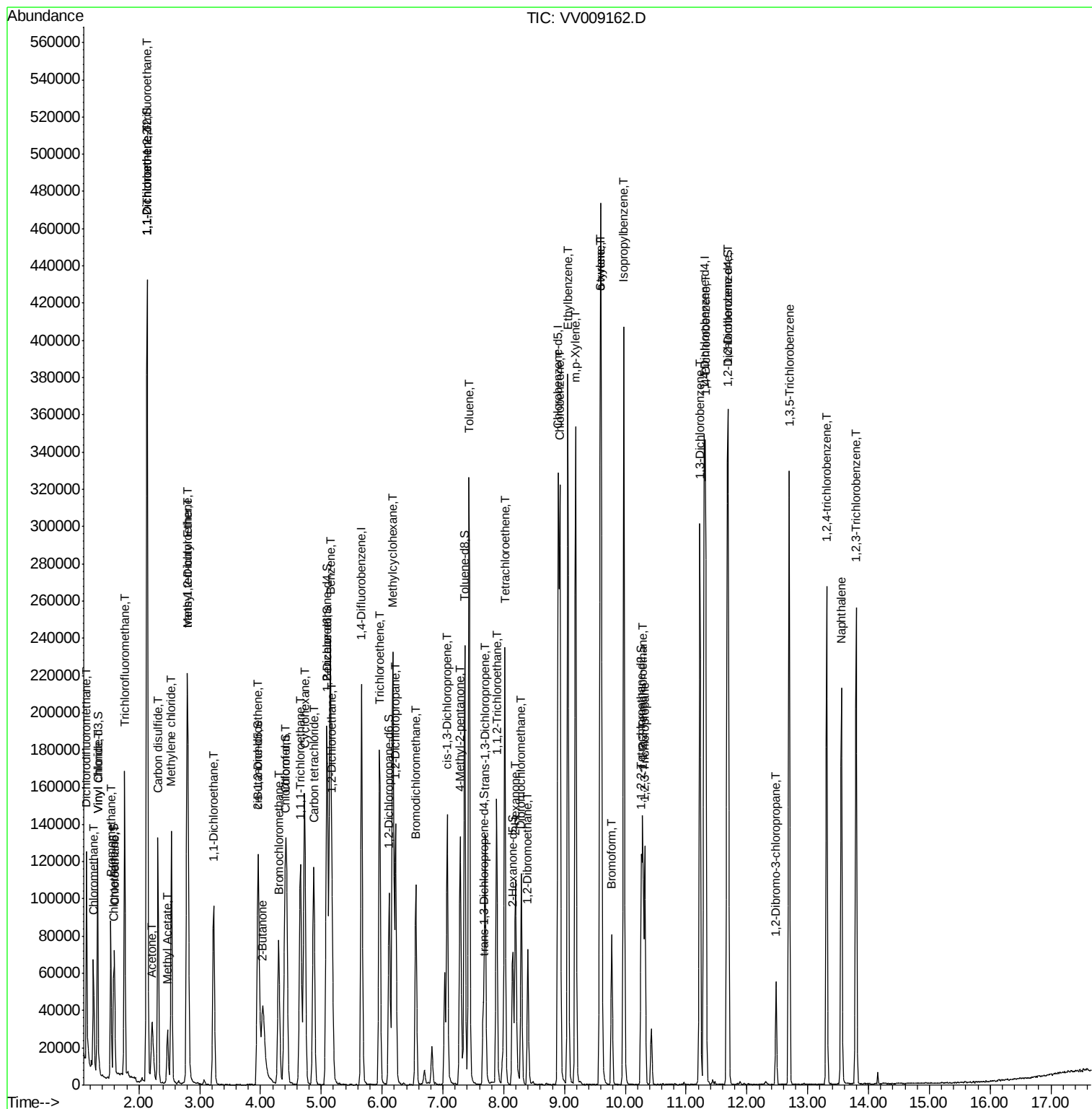
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	29483	23.875	ug/L	97
25) Chloroform	4.43	83	103987	23.950	ug/L	98
27) 1,2-Dichloroethane	5.18	62	69320	23.769	ug/L	100
30) Cyclohexane	4.73	56	86008	22.555	ug/L	99
31) 1,1,1-Trichloroethane	4.66	97	95975	22.950	ug/L	98
32) Carbon tetrachloride	4.87	117	89656	23.423	ug/L	99
34) Benzene	5.15	78	214748	23.224	ug/L	100
35) Trichloroethene	5.96	95	62502	23.462	ug/L	97
36) Methylcyclohexane	6.18	83	102758	23.086	ug/L	97
40) 1,2-Dichloropropane	6.22	63	52591	23.597	ug/L	99
41) Bromodichloromethane	6.56	83	72606	23.767	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	83640	23.682	ug/L	99
43) 4-Methyl-2-pentanone	7.28	43	99779	46.968	ug/L	96
44) Toluene	7.43	91	236791	23.752	ug/L	97
45) trans-1,3-Dichloropropene	7.69	75	74782	24.185	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	48309	24.524	ug/L	97
47) Tetrachloroethene	8.02	164	52795	22.875	ug/L	98
49) 2-Hexanone	8.20	43	72758	46.536	ug/L	97
50) Dibromochloromethane	8.29	129	59049	24.401	ug/L	96
51) 1,2-Dibromoethane	8.40	107	49762	24.159	ug/L	99
52) Chlorobenzene	8.93	112	159520	23.320	ug/L	99
53) Ethylbenzene	9.05	91	269235	23.880	ug/L	99
54) m,p-Xylene	9.18	106	102881	23.421	ug/L	97
55) o-xylene	9.59	106	97737	24.064	ug/L	98
56) Styrene	9.60	104	165650	24.180	ug/L	98
57) Isopropylbenzene	9.98	105	270664	24.018	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	63929	24.222	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	51008	24.180	ug/L	95
62) Bromoform	9.77	173	37530	24.320	ug/L	96
63) 1,3-Dichlorobenzene	11.22	146	128196	23.285	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	130171	22.682	ug/L	97
65) 1,2-Dichlorobenzene	11.69	146	123194	23.490	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	13657	25.083	ug/L	98
67) 1,3,5-Trichlorobenzene	12.69	180	99921	22.504	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	81397	22.522	ug/L	99
69) Naphthalene	13.55	128	166695	22.644	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	76286	23.000	ug/L	99

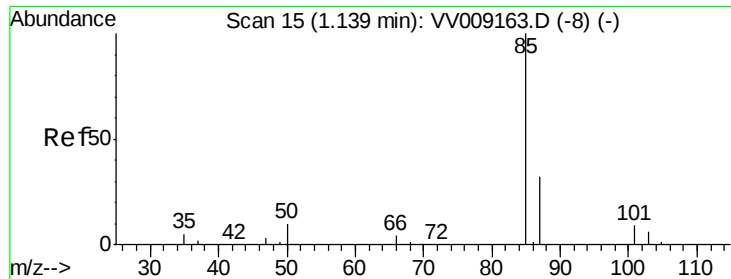
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 22.075 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

Instrument :

MSVOA_V

ClientSampleId :

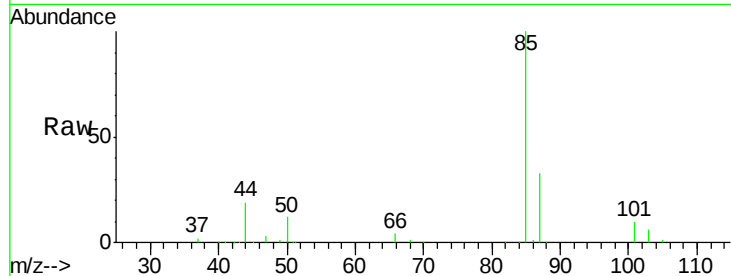
VICV69

Tot Ion: 85 Resp: 66601

Ion Ratio Lower Upper

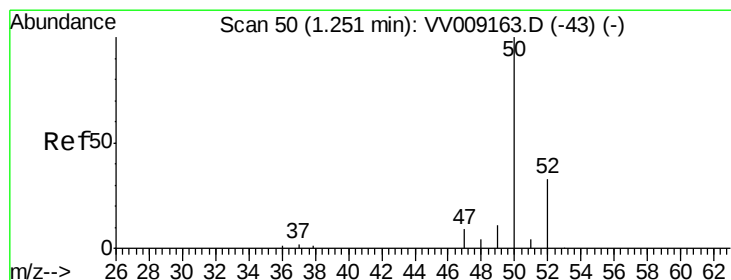
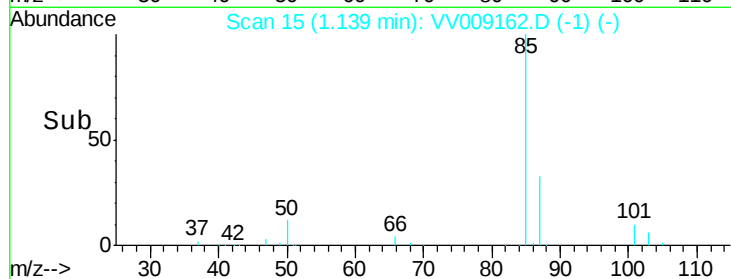
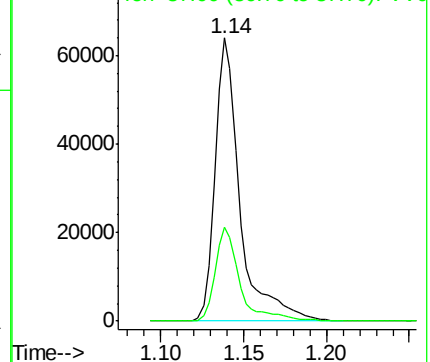
85 100

87 33.1 22.5 41.7



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 22.301 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV009162.D

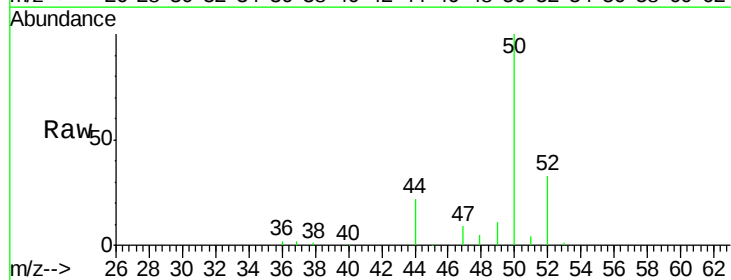
Acq: 04 Jan 2019 15:16

Tgt Ion: 50 Resp: 45569

Ion Ratio Lower Upper

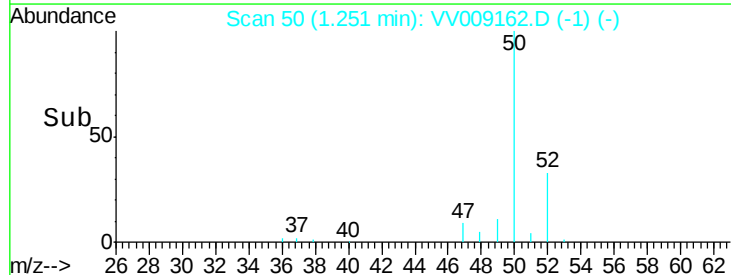
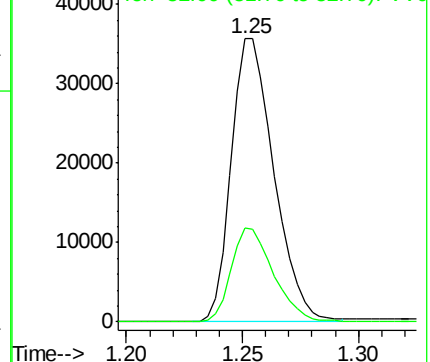
50 100

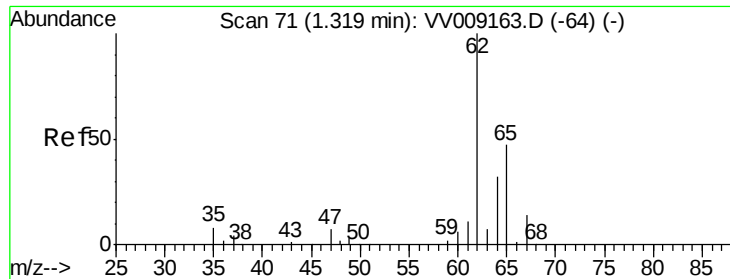
52 33.1 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 22.418 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

Instrument :

MSVOA_V

ClientSampleId :

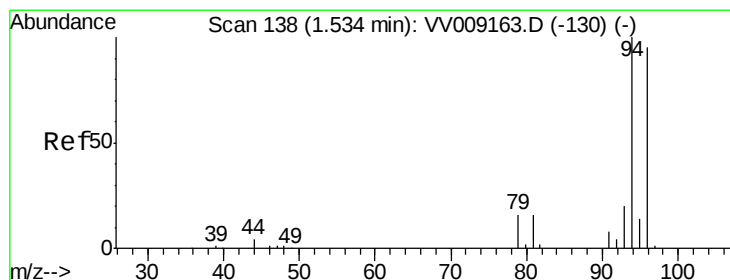
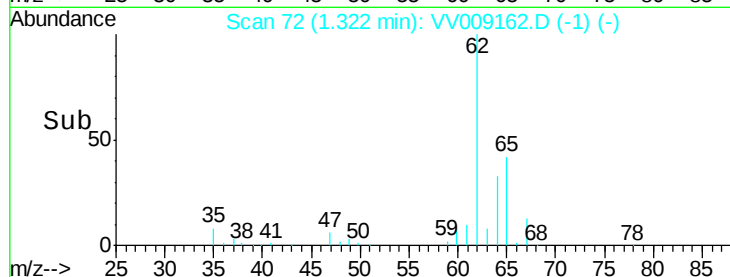
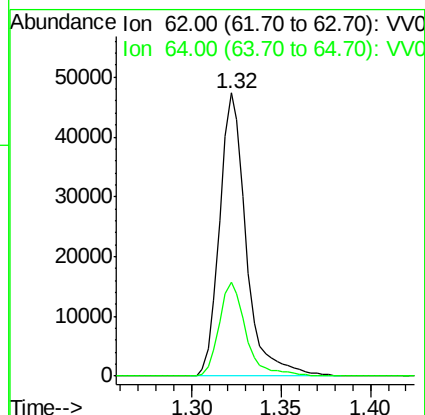
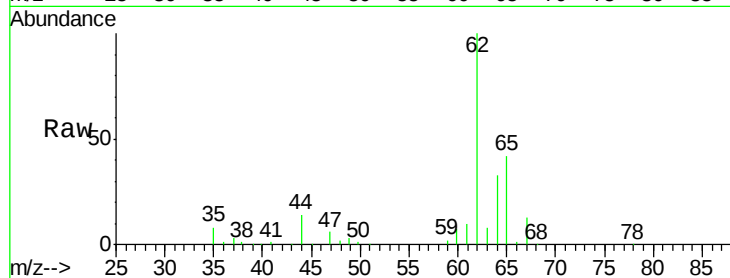
VICV69

Tot Ion: 62 Resp: 49049

Ion Ratio Lower Upper

62 100

64 33.0 23.0 42.6



#6

Bromomethane

Concen: 22.438 ug/L

RT: 1.54 min Scan# 139

Delta R.T. -0.00 min

Lab File: VV009162.D

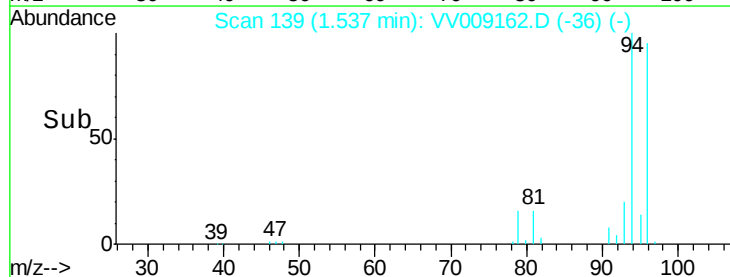
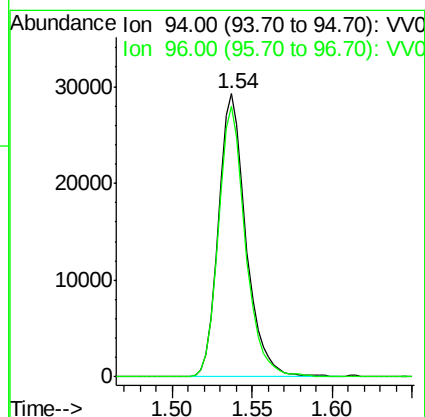
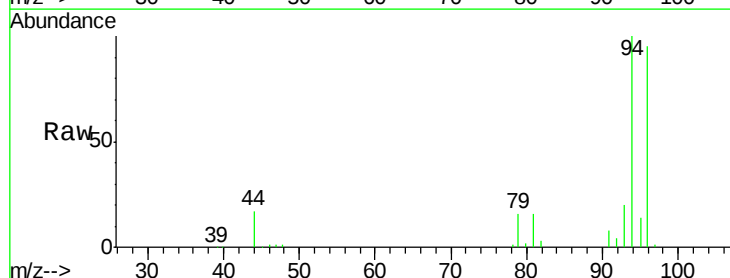
Acq: 04 Jan 2019 15:16

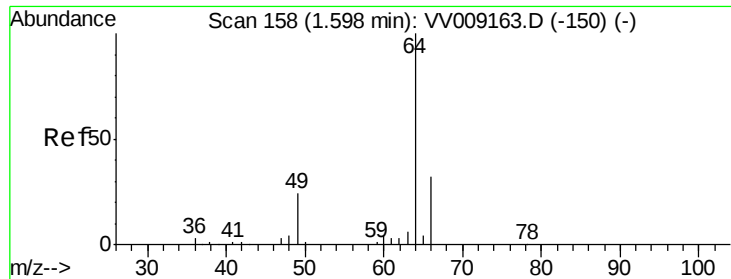
Tgt Ion: 94 Resp: 34580

Ion Ratio Lower Upper

94 100

96 93.8 9.7 185.1





#8

Chloroethane

Concen: 24.959 ug/L

RT: 1.60 min Scan# 158

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

Instrument :

MSVOA_V

ClientSampleId :

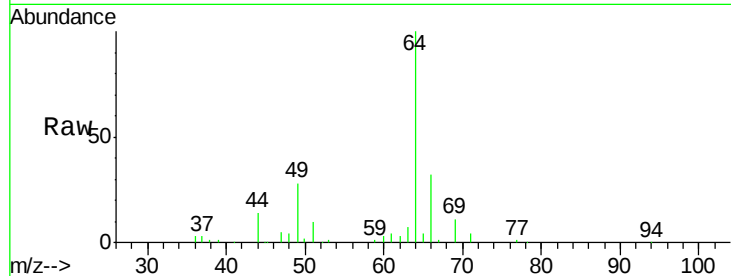
VICV69

Tot Ion: 64 Resp: 33654

Ion Ratio Lower Upper

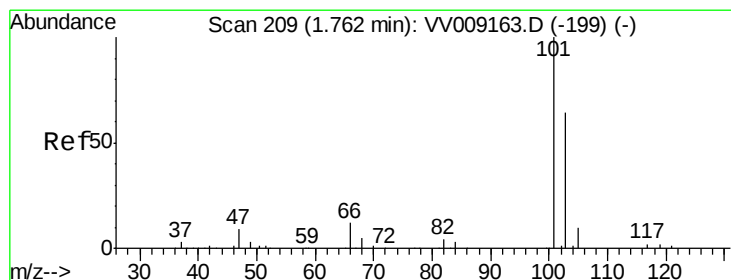
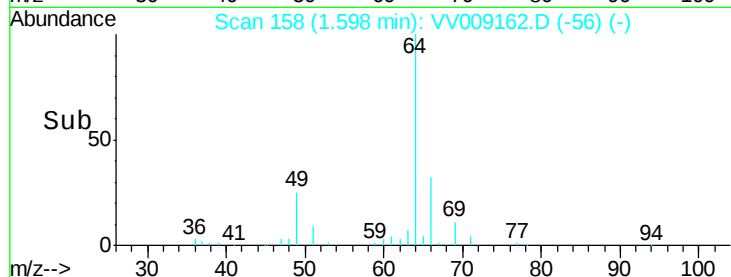
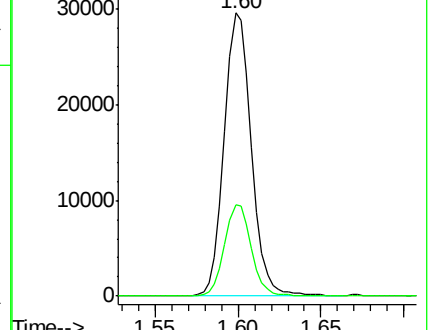
64 100

66 32.5 23.2 43.0



Abundance Ion 64.00 (63.70 to 64.70): VV009163.D (-150) (-)

Ion 66.00 (65.70 to 66.70): VV009163.D (-150) (-)



#9

Trichlorofluoromethane

Concen: 22.462 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV009162.D

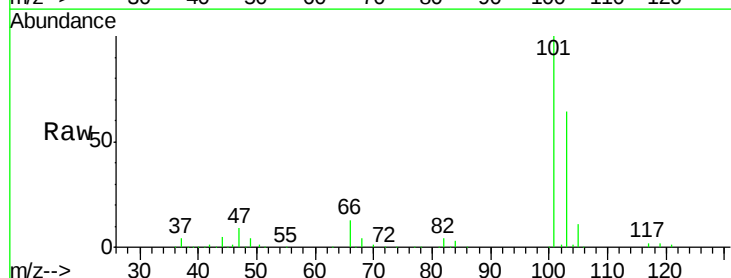
Acq: 04 Jan 2019 15:16

Tgt Ion: 101 Resp: 90100

Ion Ratio Lower Upper

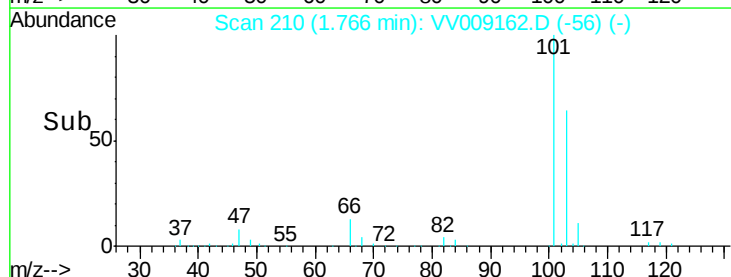
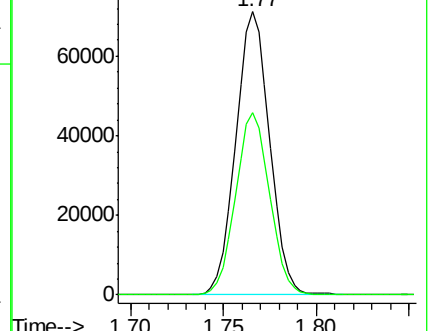
101 100

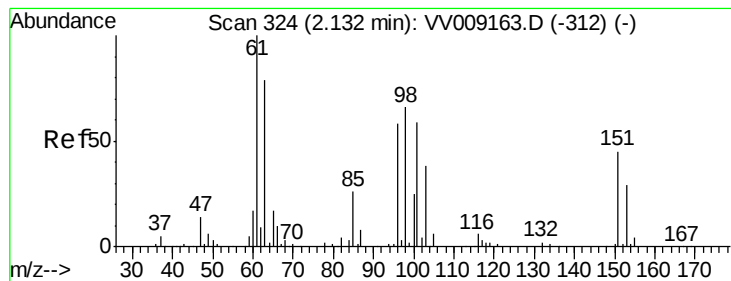
103 64.4 46.0 85.4



Abundance Ion 101.00 (100.70 to 101.70): VV009163.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV009163.D (-199) (-)





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 22.827 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

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ClientSampled :

VICV69

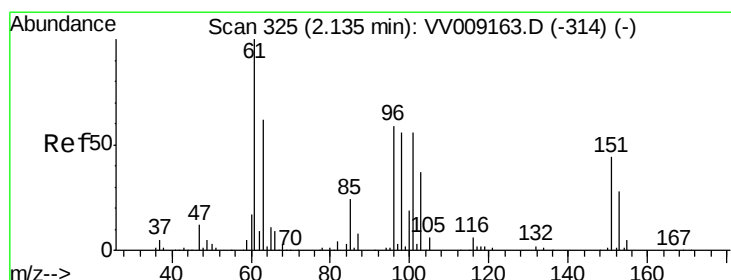
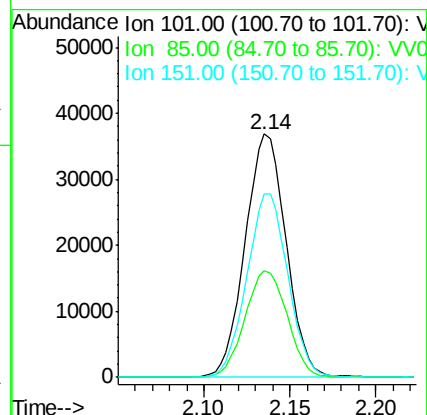
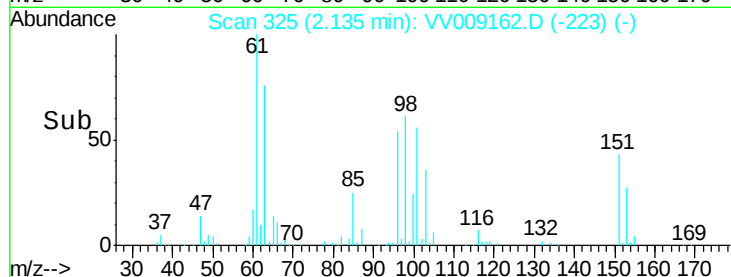
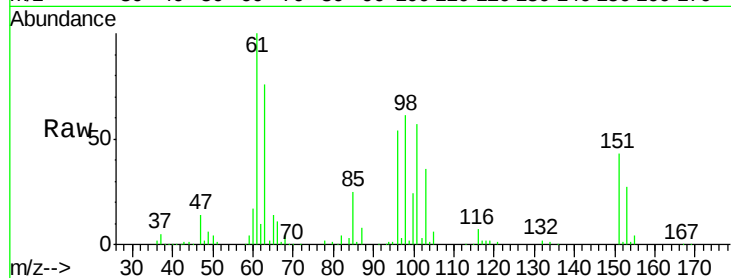
Tot Ion:101 Resp: 60981

Ion Ratio Lower Upper

101 100

85 45.0 34.6 52.0

151 75.5 62.6 94.0



#12

1,1-Dichloroethene

Concen: 22.665 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

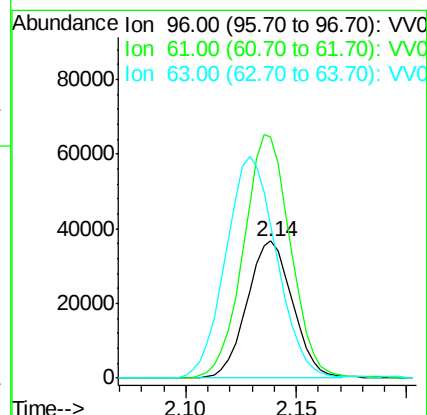
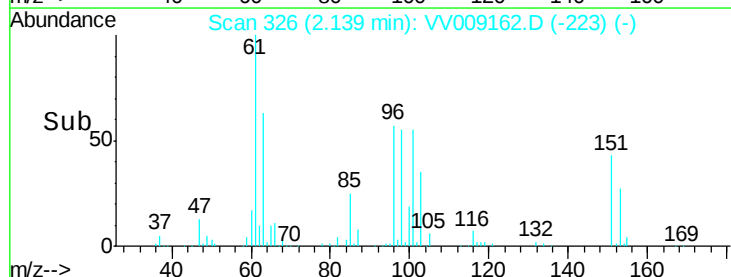
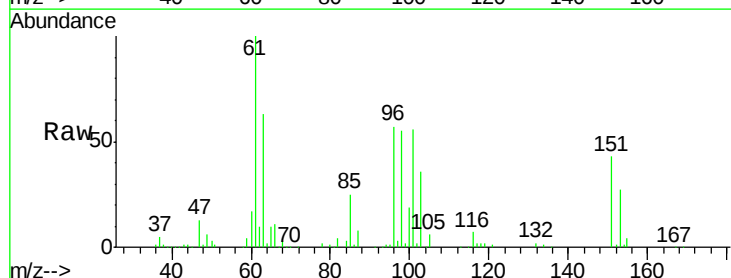
Tgt Ion: 96 Resp: 52511

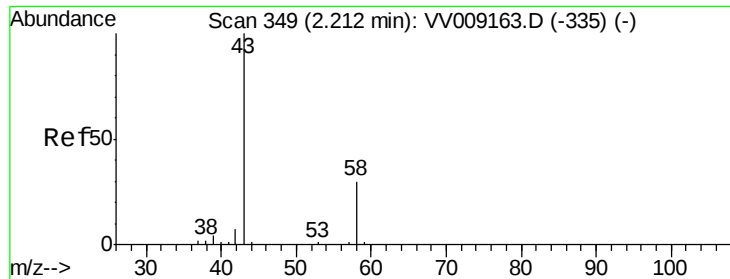
Ion Ratio Lower Upper

96 100

61 176.5 117.0 217.4

63 111.5 78.2 145.2





#13

Acetone

Concen: 43.869 ug/L

RT: 2.22 min Scan# 350

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

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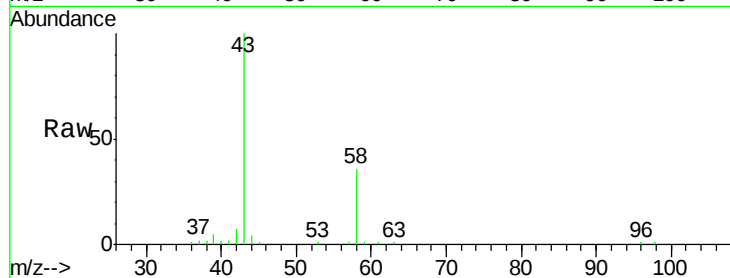
VICV69

Tot Ion: 43 Resp: 56151

Ion Ratio Lower Upper

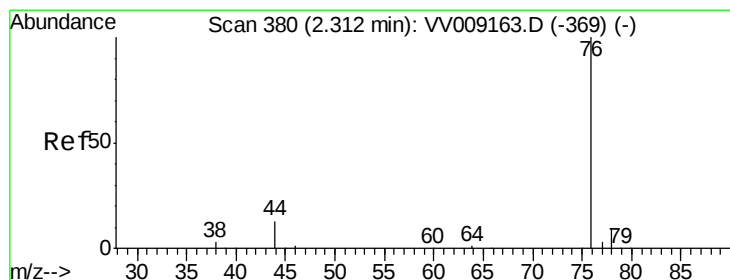
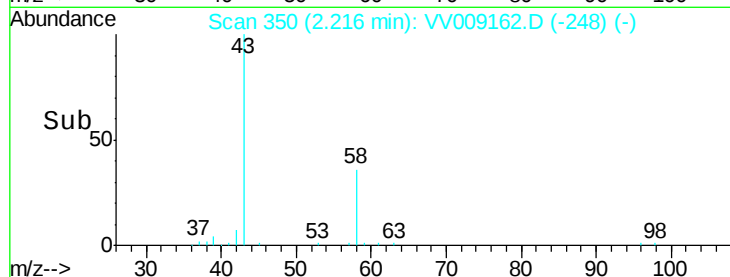
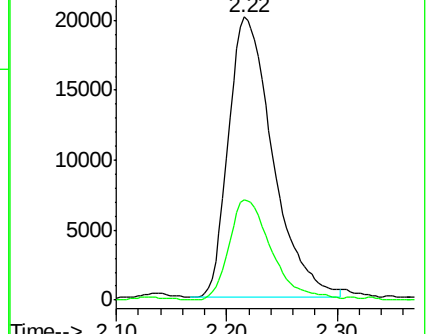
43 100

58 34.3 0.0 67.0



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#14

Carbon disulfide

Concen: 22.288 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV009162.D

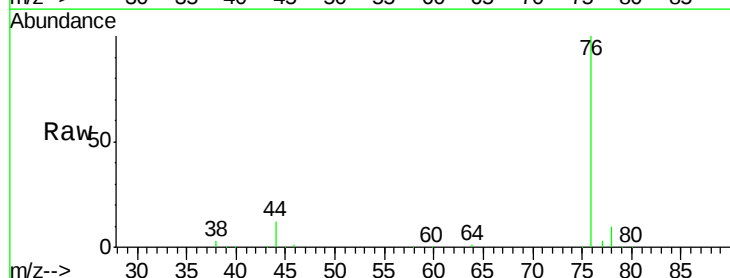
Acq: 04 Jan 2019 15:16

Tgt Ion: 76 Resp: 147551

Ion Ratio Lower Upper

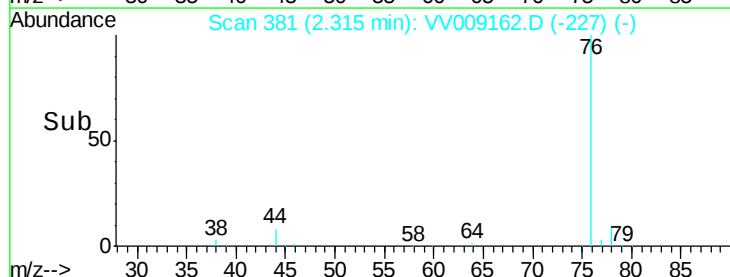
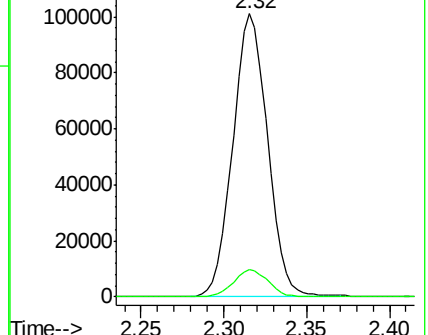
76 100

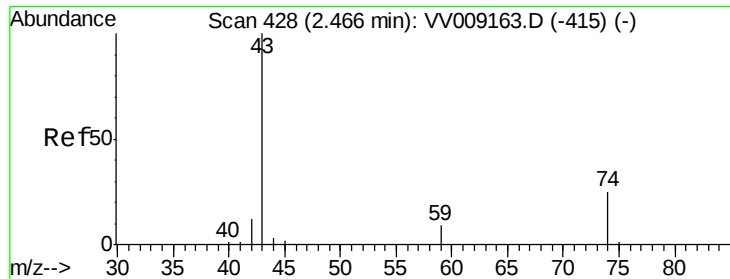
78 9.6 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

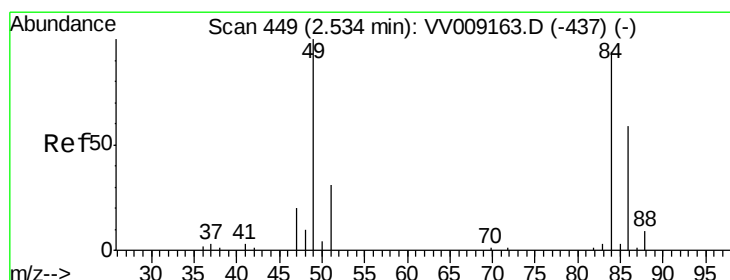
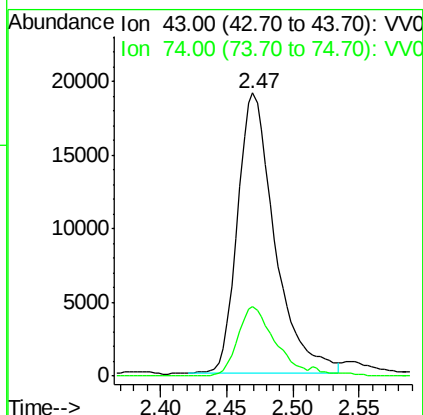
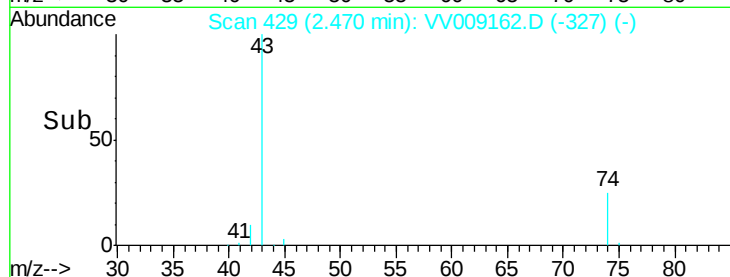
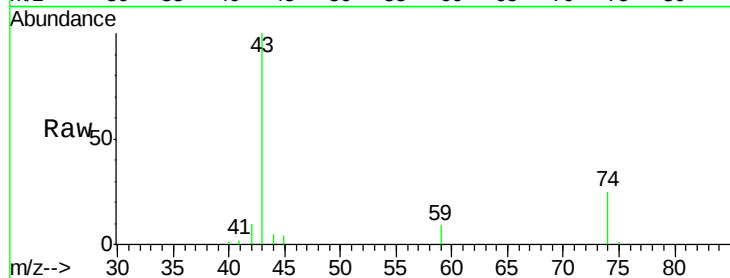




#15
Methvl Acetate
Concen: 23.524 ug/L
RT: 2.47 min Scan# 429
Delta R.T. -0.00 min
Lab File: VV009162.D
Acq: 04 Jan 2019 15:16

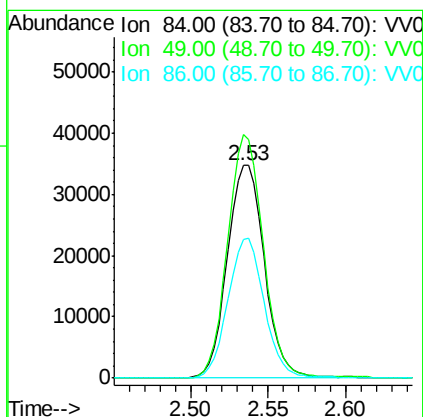
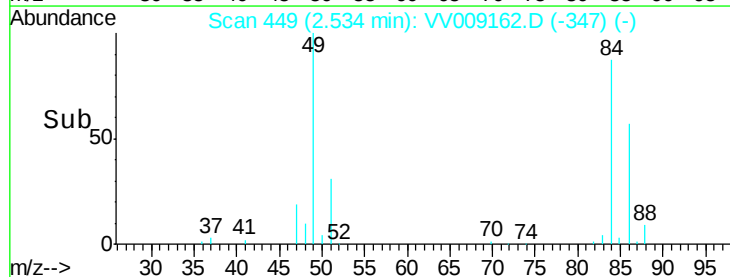
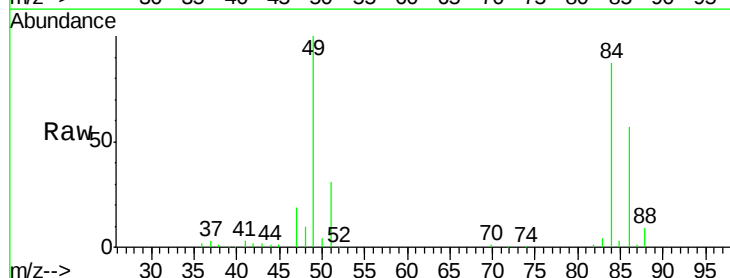
Instrument :
MSVOA_V
ClientSampleId :
VICV69

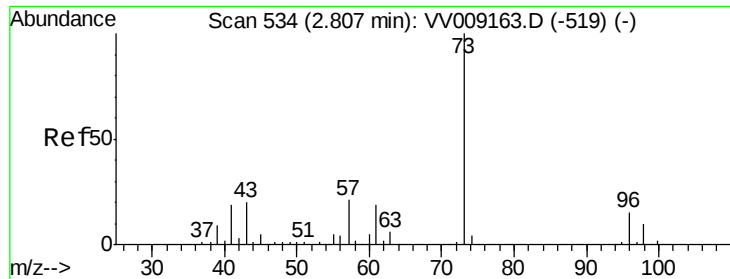
Tot Ion: 43 Resp: 37256
Ion Ratio Lower Upper
43 100
74 24.4 19.4 29.0



#16
Methylene chloride
Concen: 20.577 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV009162.D
Acq: 04 Jan 2019 15:16

Tgt Ion: 84 Resp: 57698
Ion Ratio Lower Upper
84 100
49 114.4 77.6 144.2
86 65.1 47.4 88.0

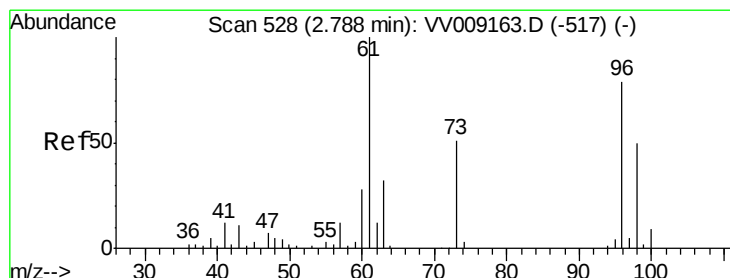
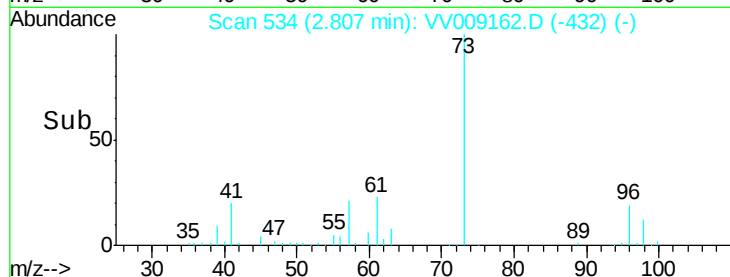
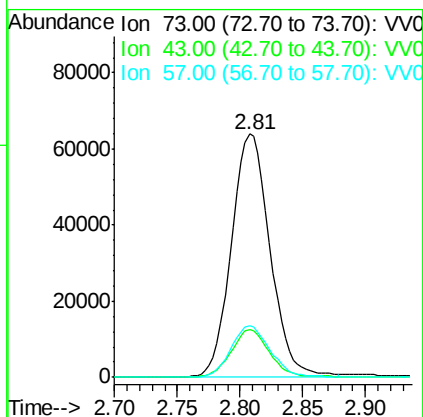
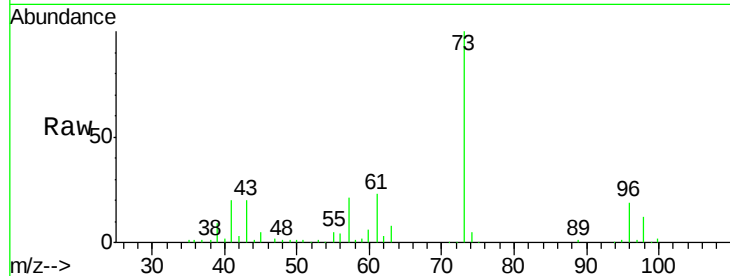




#17
Methvl tert-butvl Ether
Concen: 24.245 ug/L
RT: 2.81 min Scan# 534
Delta R.T. -0.00 min
Lab File: VV009162.D
Acq: 04 Jan 2019 15:16

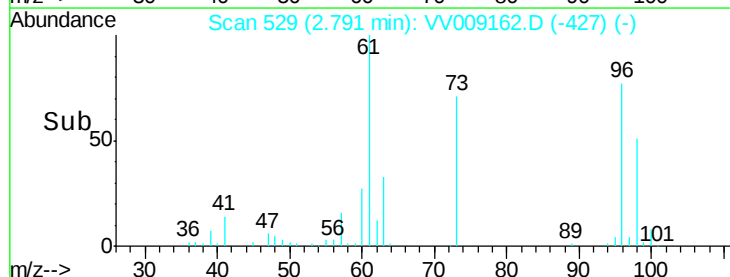
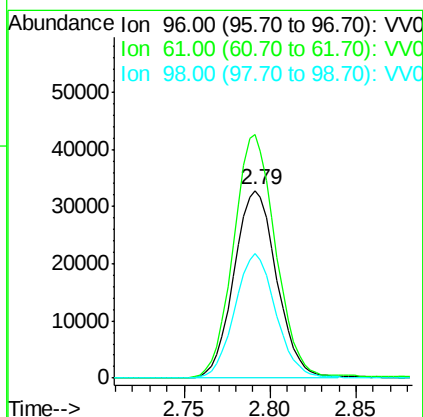
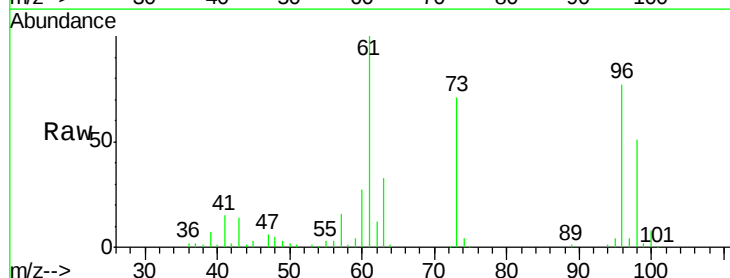
Instrument :
MSVOA_V
ClientSampleId :
VICV69

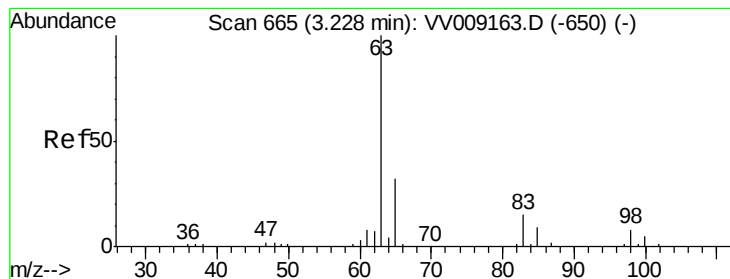
Tot Ion: 73 Resp: 137584
Ion Ratio Lower Upper
73 100
43 18.9 15.4 23.2
57 21.5 16.2 24.2



#18
trans-1,2-Dichloroethene
Concen: 23.144 ug/L
RT: 2.79 min Scan# 529
Delta R.T. -0.00 min
Lab File: VV009162.D
Acq: 04 Jan 2019 15:16

Tgt Ion: 96 Resp: 56824
Ion Ratio Lower Upper
96 100
61 129.6 88.8 164.8
98 66.0 43.5 80.9





#19

1,1-Dichloroethane

Concen: 23.688 ug/L

RT: 3.23 min Scan# 665

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

Instrument :

MSVOA_V

ClientSampled :

VICV69

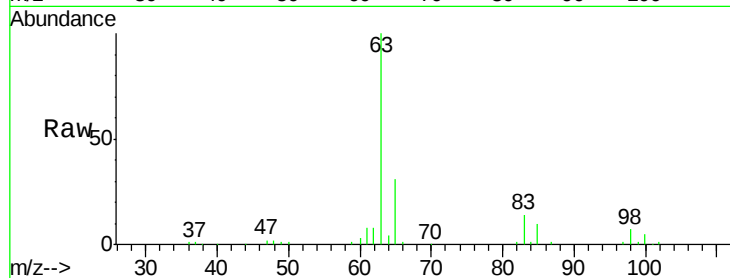
Tot Ion: 63 Resp: 96582

Ion Ratio Lower Upper

63 100

65 30.6 22.6 42.0

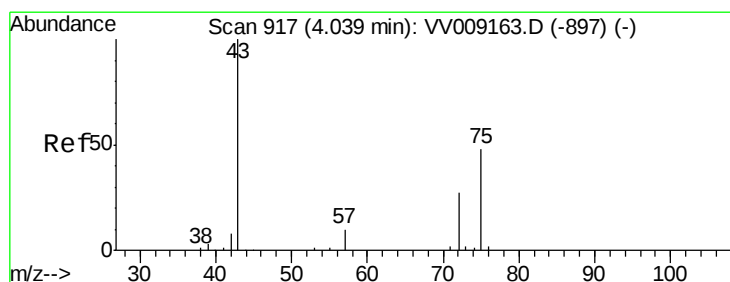
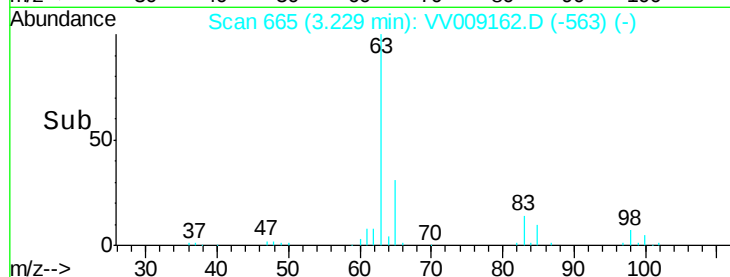
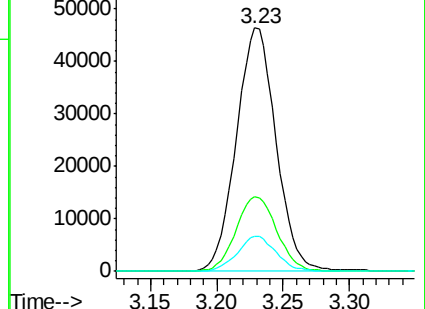
83 14.4 9.9 18.3



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#21

2-Butanone

Concen: 45.973 ug/L

RT: 4.04 min Scan# 917

Delta R.T. -0.01 min

Lab File: VV009162.D

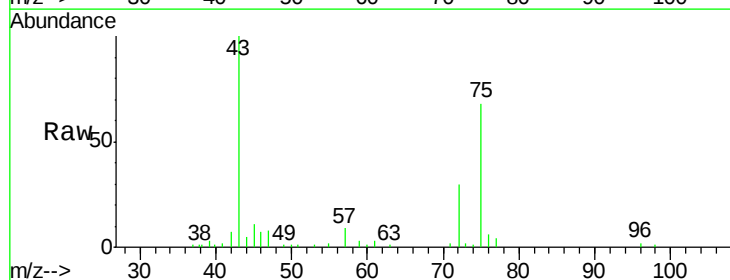
Acq: 04 Jan 2019 15:16

Tgt Ion: 43 Resp: 51469

Ion Ratio Lower Upper

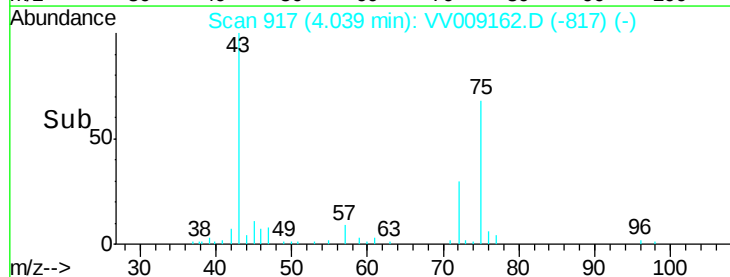
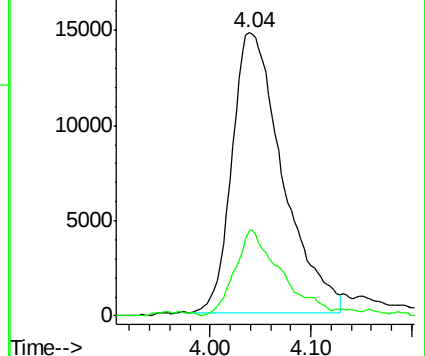
43 100

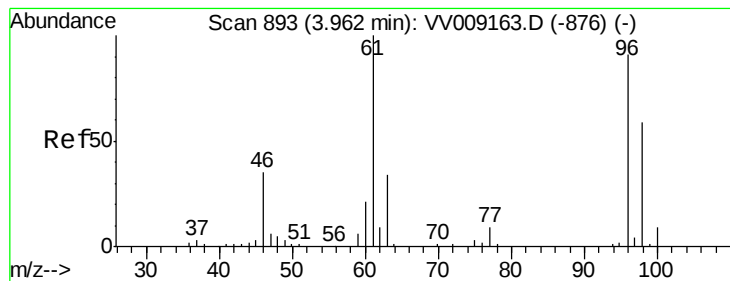
72 26.1 0.1 0.1#



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 72.00 (71.70 to 72.70): VV0



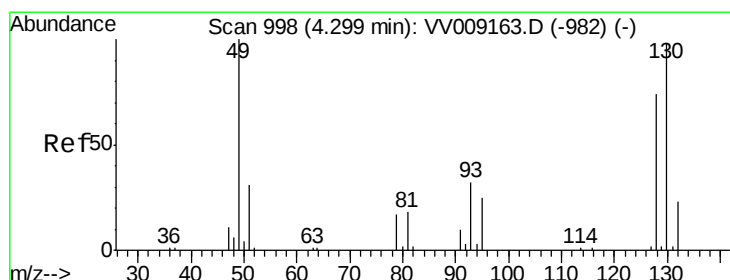
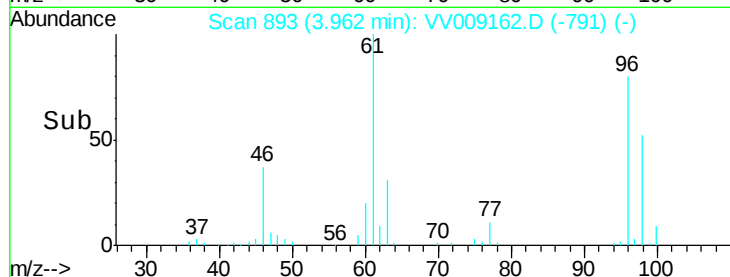
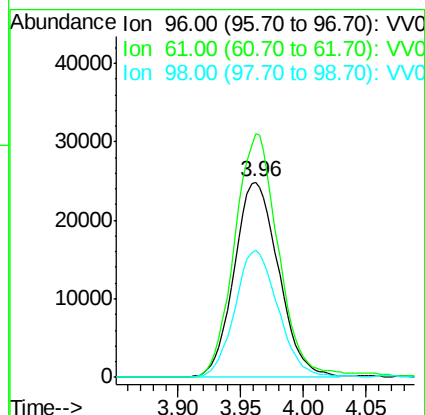
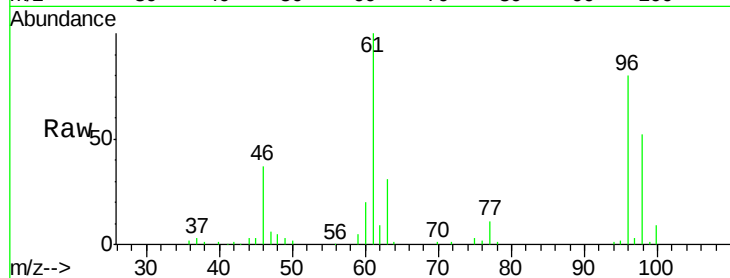


#22

cis-1,2-Dichloroethene
 Concen: 23.309 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. -0.00 min
 Lab File: VV009162.D
 Acq: 04 Jan 2019 15:16

Instrument :
 MSVOA_V
 ClientSampleId :
 VICV69

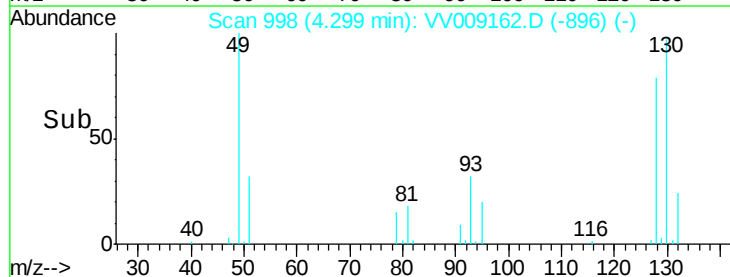
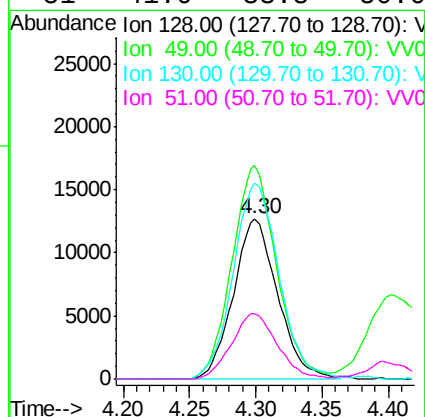
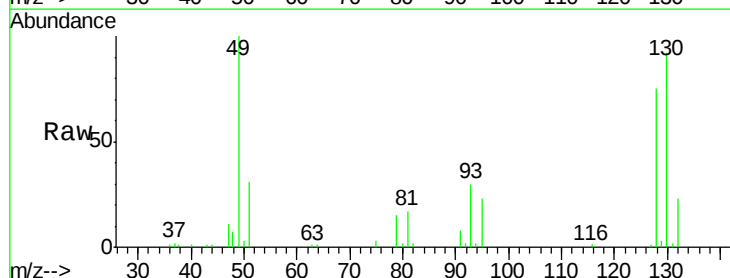
Tot Ion: 96 Resp: 61180
 Ion Ratio Lower Upper
 96 100
 61 124.7 83.2 154.6
 98 65.0 45.8 85.2

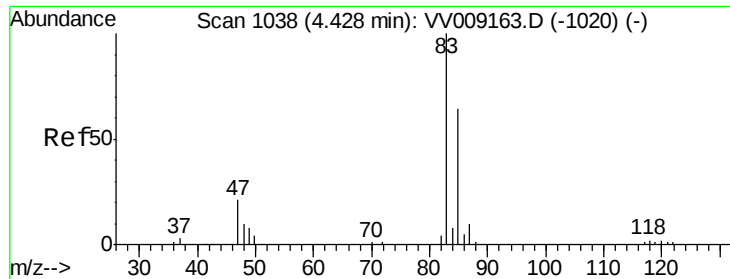


#23

Bromochloromethane
 Concen: 23.875 ug/L
 RT: 4.30 min Scan# 998
 Delta R.T. -0.00 min
 Lab File: VV009162.D
 Acq: 04 Jan 2019 15:16

Tgt Ion: 128 Resp: 29483
 Ion Ratio Lower Upper
 128 100
 49 133.2 89.9 167.0
 130 122.5 87.8 163.2
 51 41.0 33.8 50.6

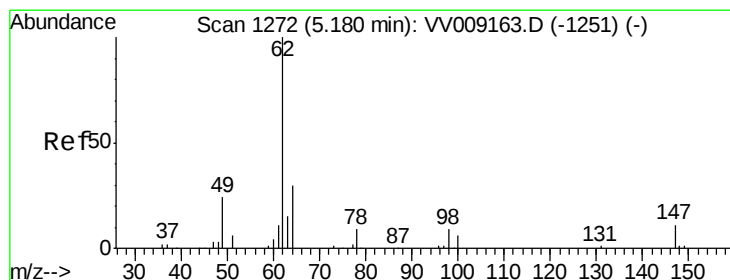
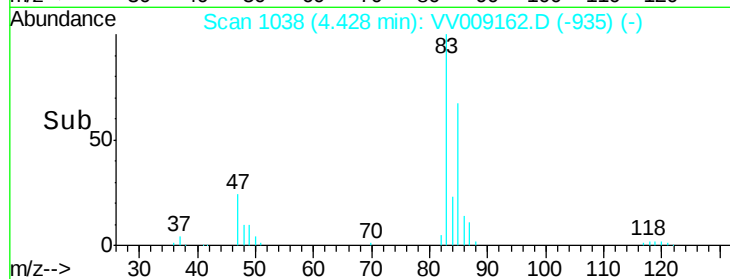
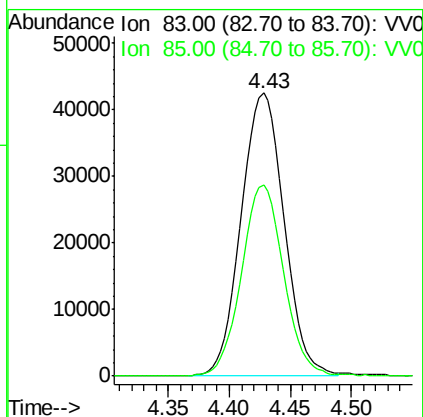
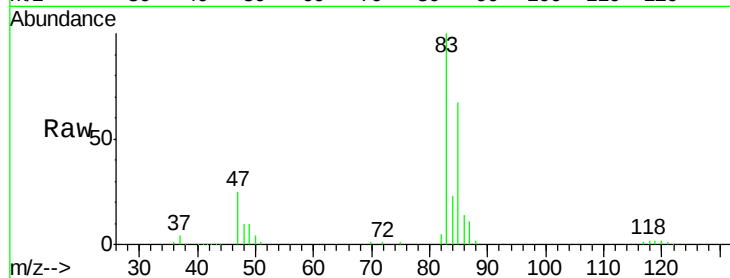




#25
Chloroform
Concen: 23.950 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. -0.00 min
Lab File: VV009162.D
Acq: 04 Jan 2019 15:16

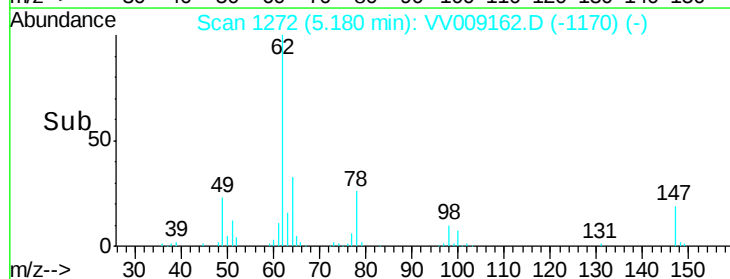
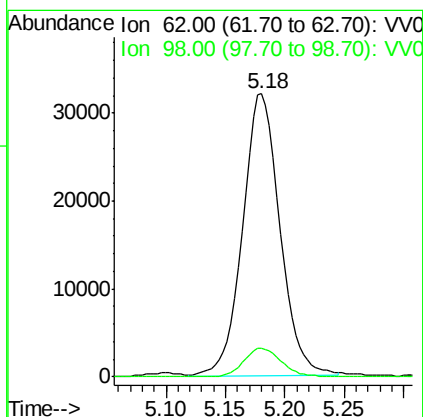
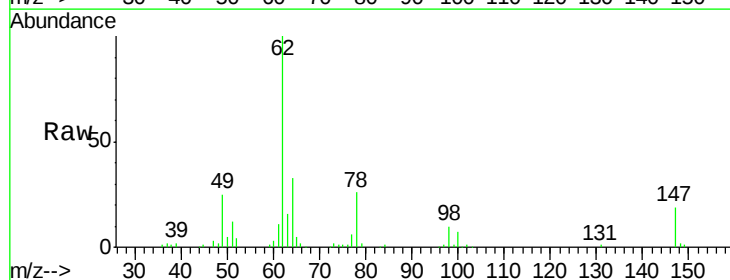
Instrument :
MSVOA_V
ClientSampleId :
VICV69

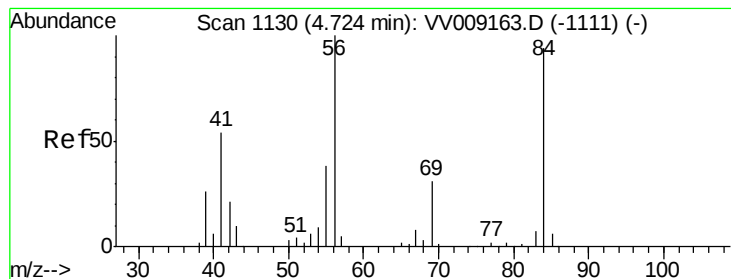
Tot Ion: 83 Resp: 103987
Ion Ratio Lower Upper
83 100
85 66.0 45.3 84.1



#27
1,2-Dichloroethane
Concen: 23.769 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VV009162.D
Acq: 04 Jan 2019 15:16

Tgt Ion: 62 Resp: 69320
Ion Ratio Lower Upper
62 100
98 10.1 8.1 12.1





#30

Cyclohexane

Concen: 22.555 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

Instrument :

MSVOA_V

ClientSampleId :

VICV69

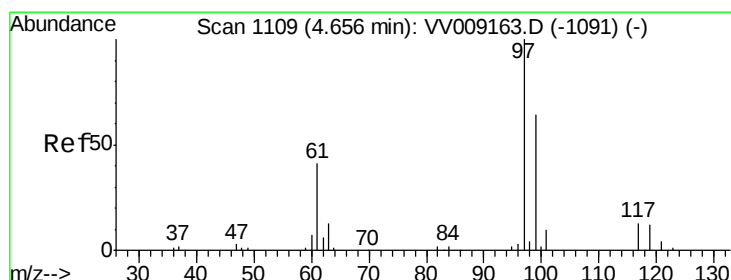
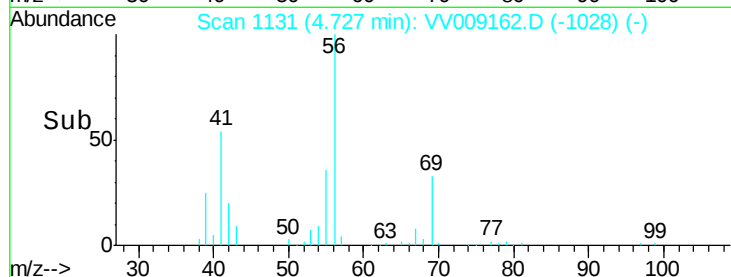
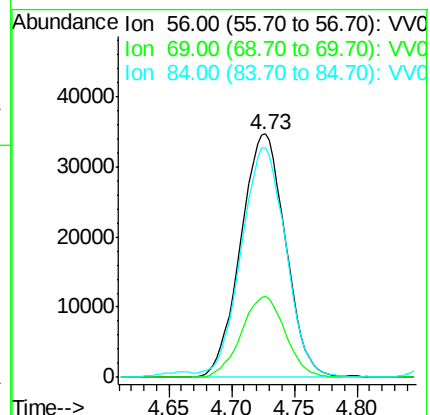
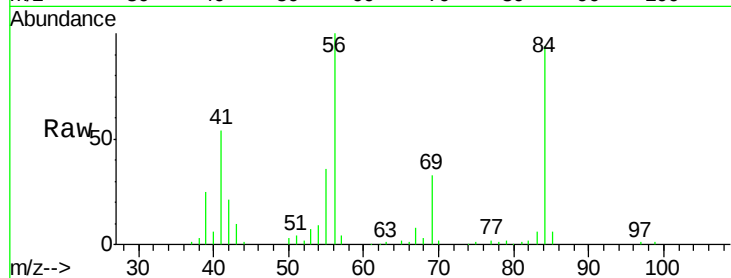
Tot Ion: 56 Resp: 86008

Ion Ratio Lower Upper

56 100

69 32.5 26.0 39.0

84 94.6 77.0 115.4



#31

1,1,1-Trichloroethane

Concen: 22.950 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

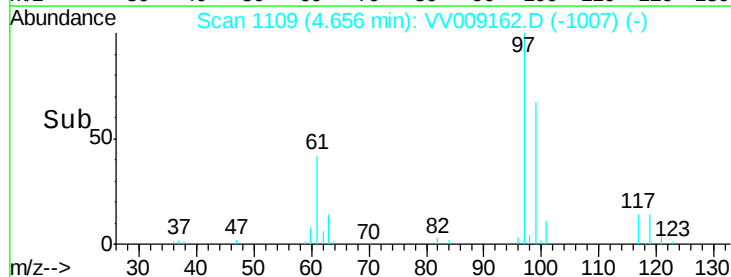
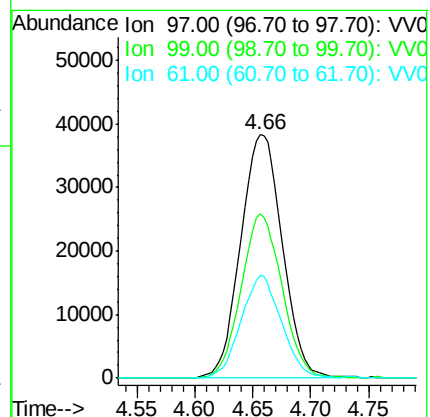
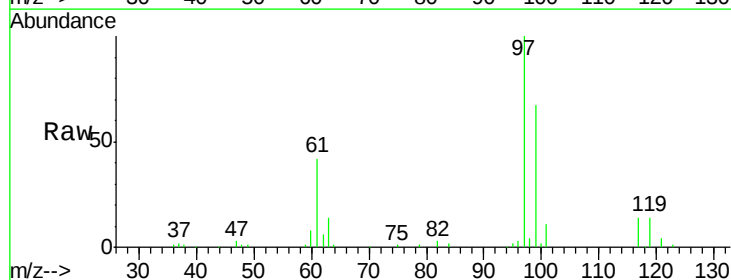
Tgt Ion: 97 Resp: 95975

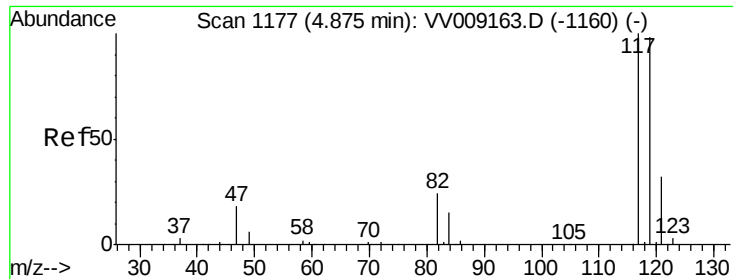
Ion Ratio Lower Upper

97 100

99 66.1 51.2 76.8

61 40.8 31.8 47.6





#32

Carbon tetrachloride

Concen: 23.423 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

Instrument :

MSVOA_V

ClientSampleId :

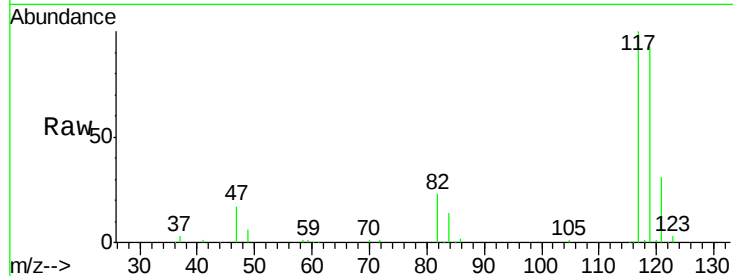
VICV69

Tot Ion:117 Resp: 89656

Ion Ratio Lower Upper

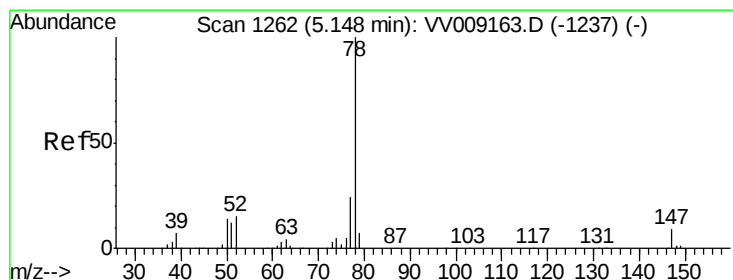
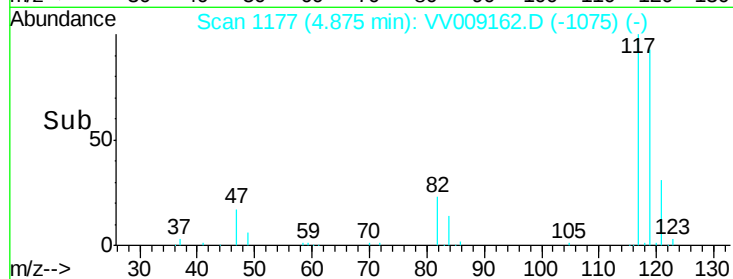
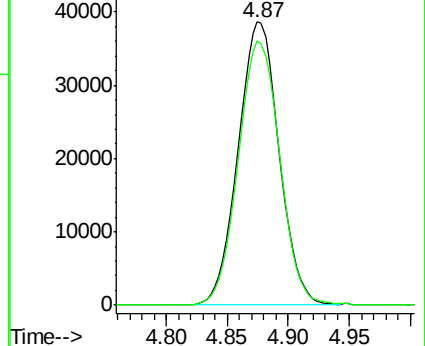
117 100

119 94.9 76.6 115.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 23.224 ug/L

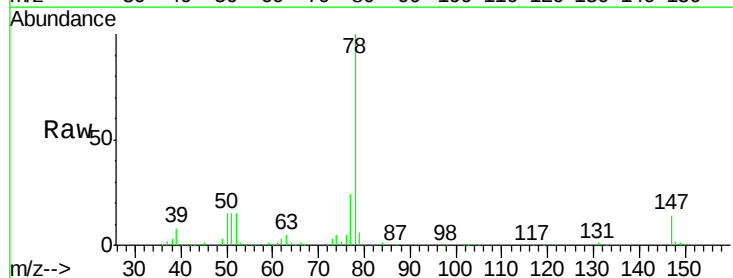
RT: 5.15 min Scan# 1262

Delta R.T. -0.00 min

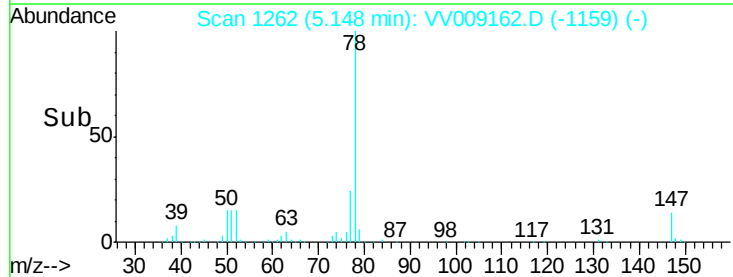
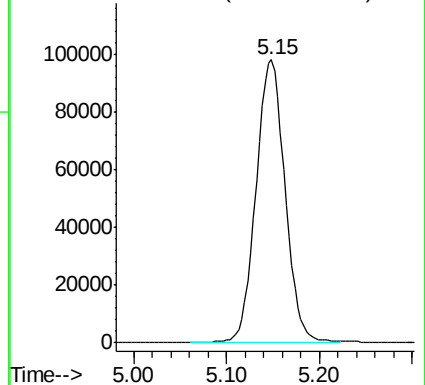
Lab File: VV009162.D

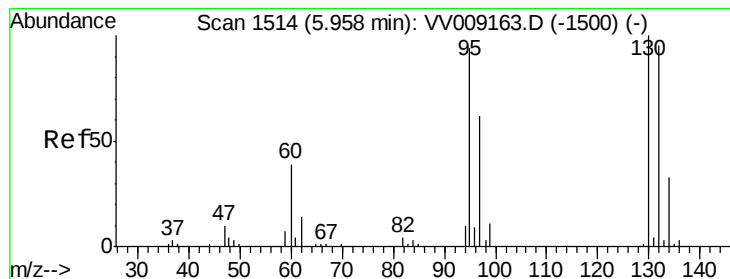
Acq: 04 Jan 2019 15:16

Tgt Ion: 78 Resp: 214748



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 23.462 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

Instrument :

MSVOA_V

ClientSampleId :

VICV69

Tot Ion: 95 Resp: 62502

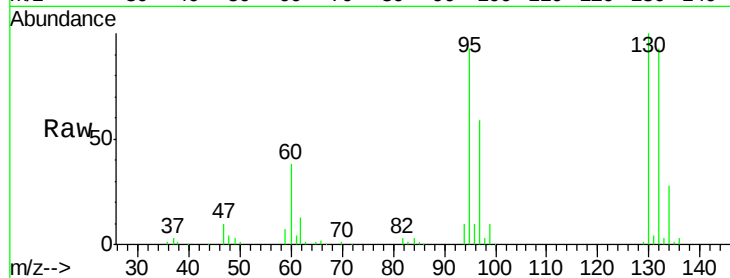
Ion Ratio Lower Upper

95 100

97 65.1 46.2 85.8

132 103.1 73.9 137.3

130 105.6 77.0 143.0

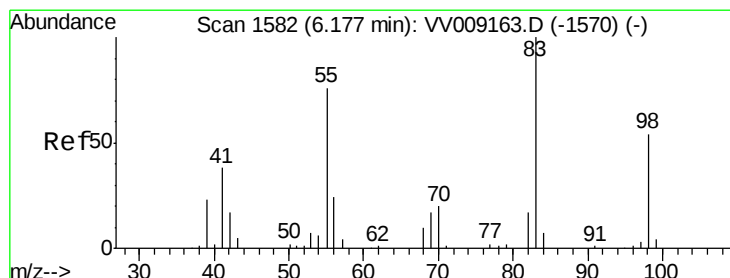
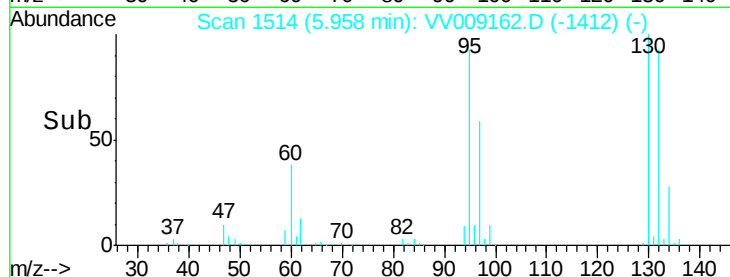
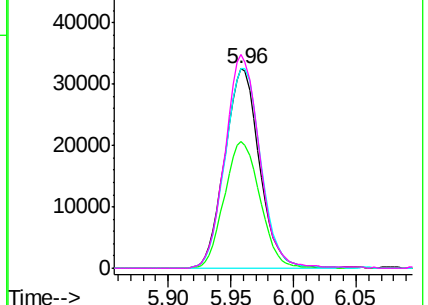


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 23.086 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

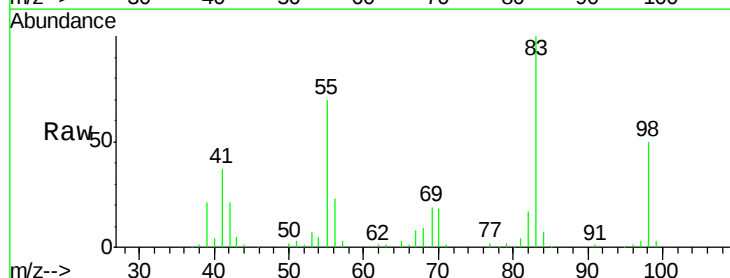
Tgt Ion: 83 Resp: 102758

Ion Ratio Lower Upper

83 100

55 69.9 58.5 87.7

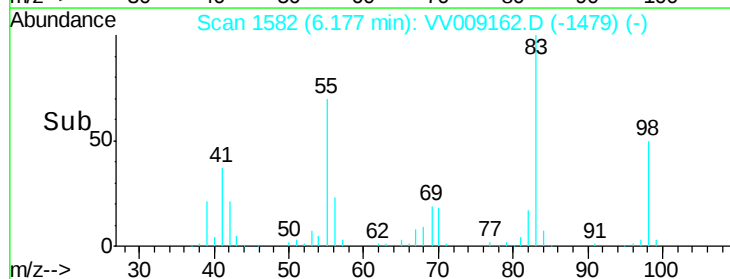
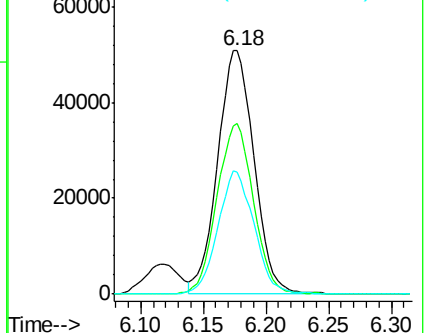
98 50.2 41.4 62.0

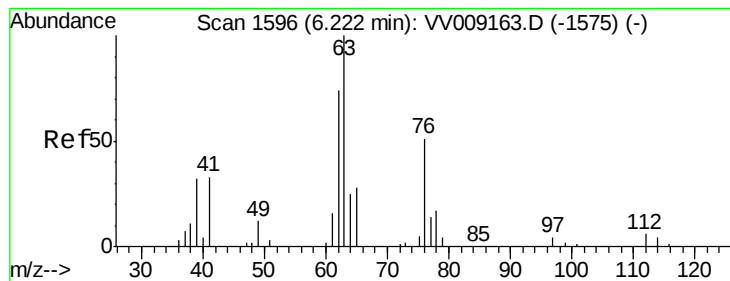


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#40

1,2-Dichloropropane

Concen: 23.597 ug/L

RT: 6.22 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

Instrument :

MSVOA_V

ClientSampleId :

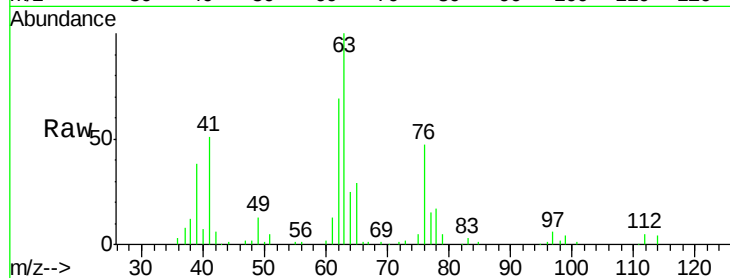
VICV69

Tot Ion: 63 Resp: 52591

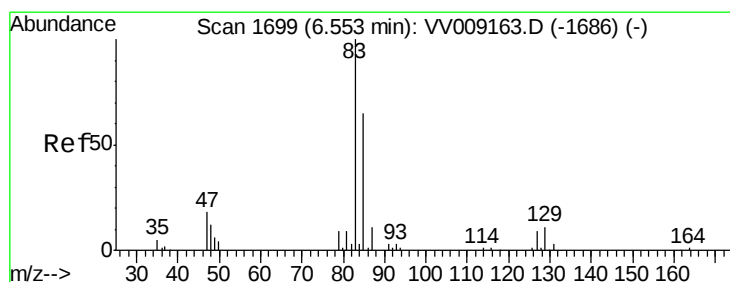
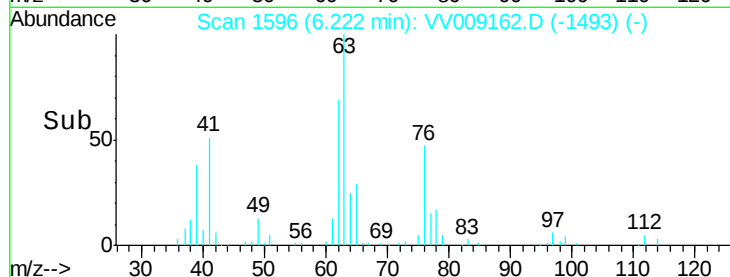
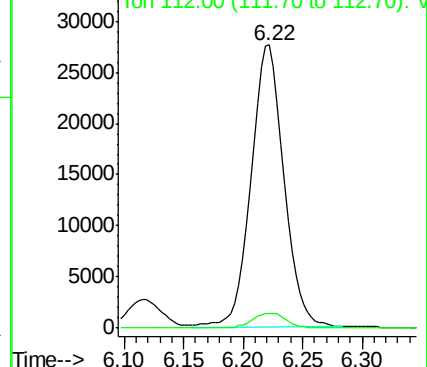
Ion Ratio Lower Upper

63 100

112 5.3 3.9 5.9



Abundance Ion 63.00 (62.70 to 63.70): VV009163.D (-1575) (-)



#41

Bromodichloromethane

Concen: 23.767 ug/L

RT: 6.56 min Scan# 1700

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

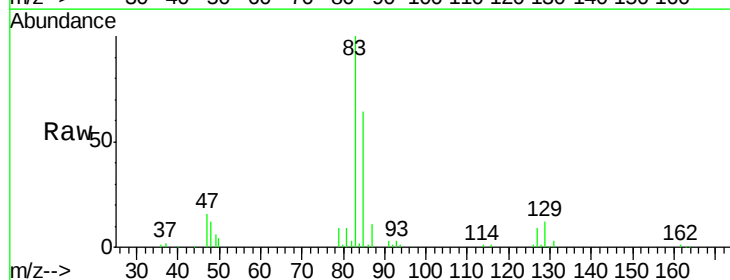
Tgt Ion: 83 Resp: 72606

Ion Ratio Lower Upper

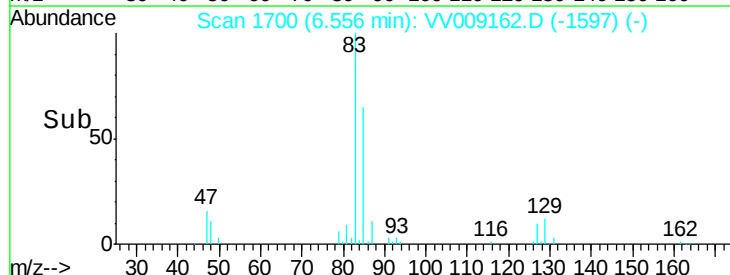
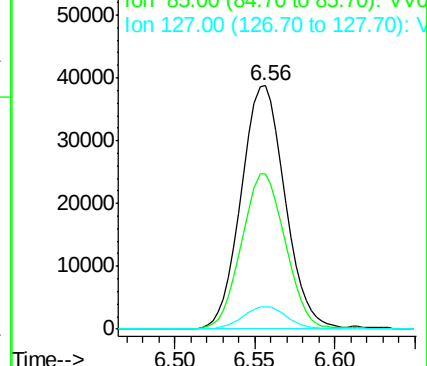
83 100

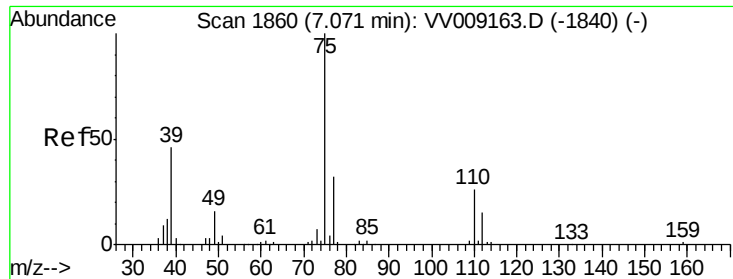
85 64.0 45.3 84.1

127 9.4 7.8 11.6



Abundance Ion 83.00 (82.70 to 83.70): VV009163.D (-1686) (-)



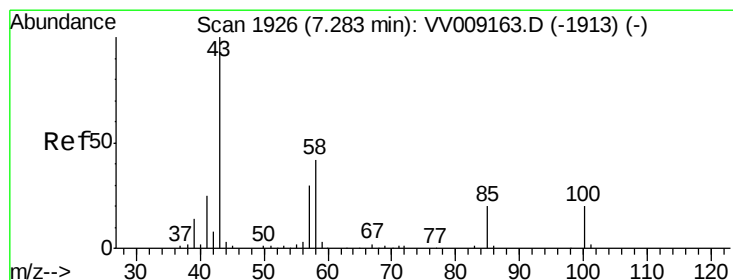
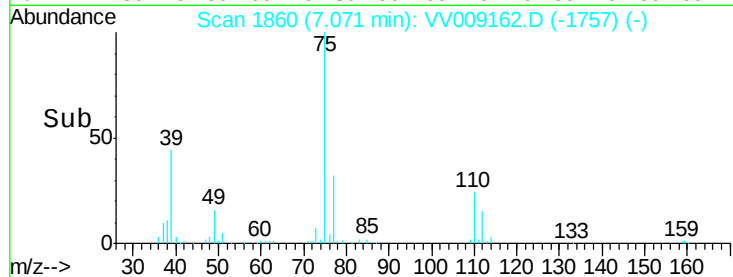
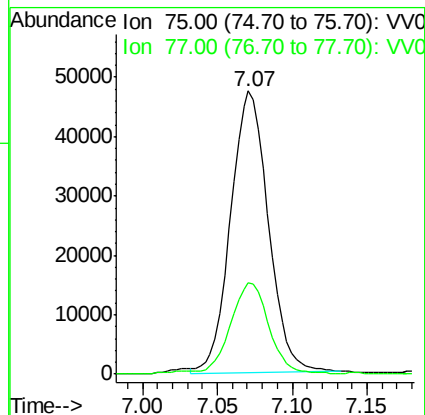
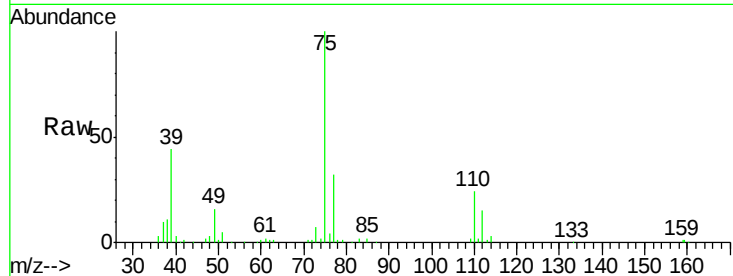


#42

cis-1,3-Dichloropropene
Concen: 23.682 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VV009162.D
Acq: 04 Jan 2019 15:16

Instrument :
MSVOA_V
ClientSampleId :
VICV69

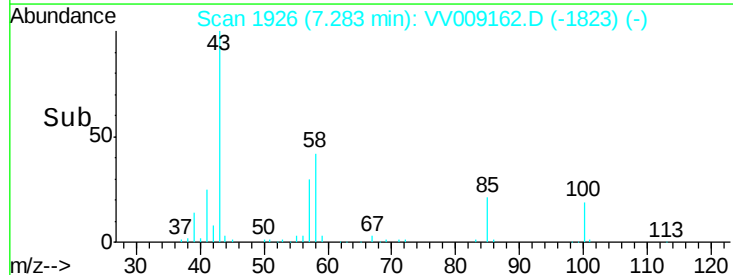
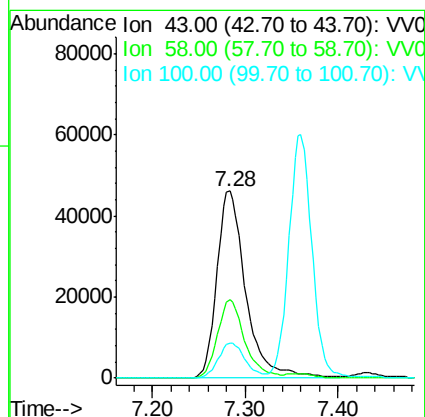
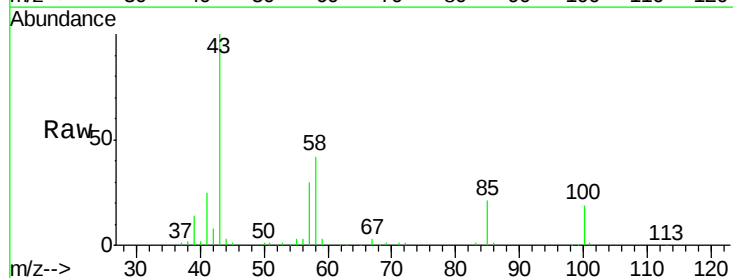
Tot Ion: 75 Resp: 83640
Ion Ratio Lower Upper
75 100
77 32.2 22.8 42.4

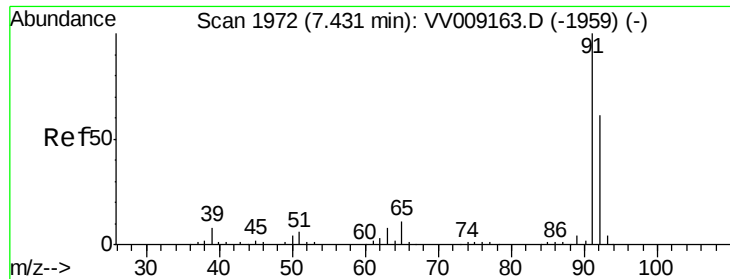


#43

4-Methyl-2-pentanone
Concen: 46.968 ug/L
RT: 7.28 min Scan# 1926
Delta R.T. -0.00 min
Lab File: VV009162.D
Acq: 04 Jan 2019 15:16

Tgt Ion: 43 Resp: 99779
Ion Ratio Lower Upper
43 100
58 39.4 33.4 50.2
100 17.4 15.2 22.8





#44

Toluene

Concen: 23.752 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

Instrument :

MSVOA_V

ClientSampleId :

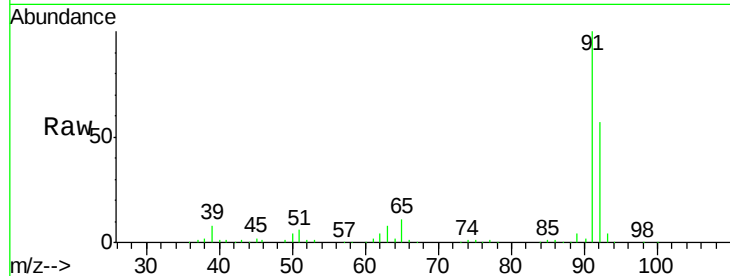
VICV69

Tot Ion: 91 Resp: 236791

Ion Ratio Lower Upper

91 100

92 57.5 41.7 77.5



Abundance Ion 91.00 (90.70 to 91.70): VV009163.D (-1959) (-)

Ion 92.00 (91.70 to 92.70): VV009162.D (-1869) (-)

7.43

150000

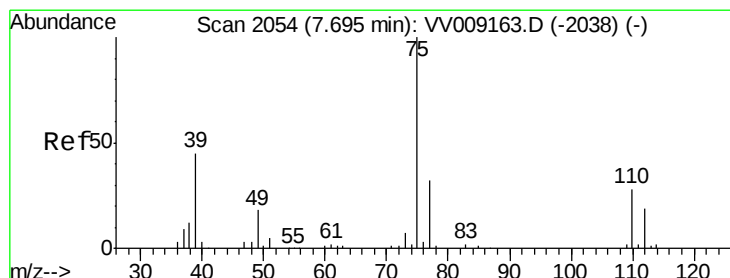
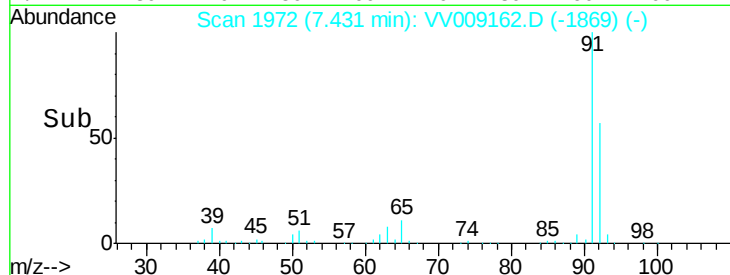
100000

50000

0

7.35 7.40 7.45 7.50 7.55

Time-->



#45

trans-1,3-Dichloropropene

Concen: 24.185 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. -0.00 min

Lab File: VV009162.D

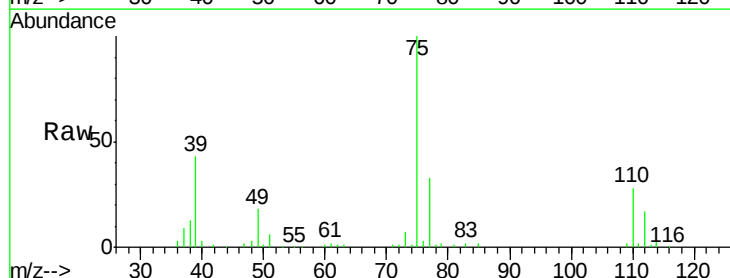
Acq: 04 Jan 2019 15:16

Tgt Ion: 75 Resp: 74782

Ion Ratio Lower Upper

75 100

77 32.5 22.3 41.5



Abundance Ion 75.00 (74.70 to 75.70): VV009163.D (-2038) (-)

Ion 77.00 (76.70 to 77.70): VV009162.D (-1951) (-)

7.69

50000

40000

30000

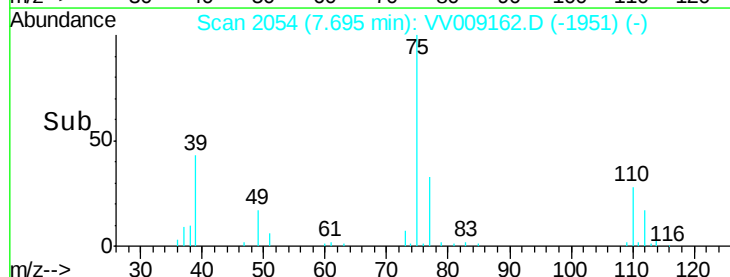
20000

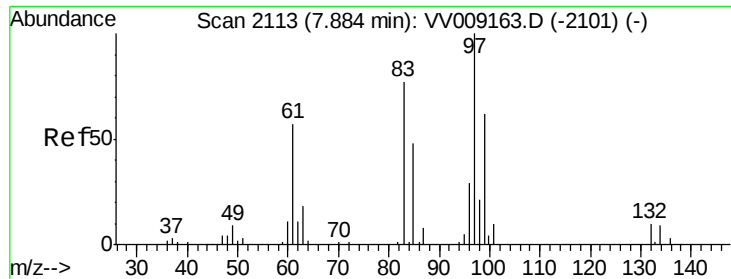
10000

0

7.60 7.70 7.80

Time-->

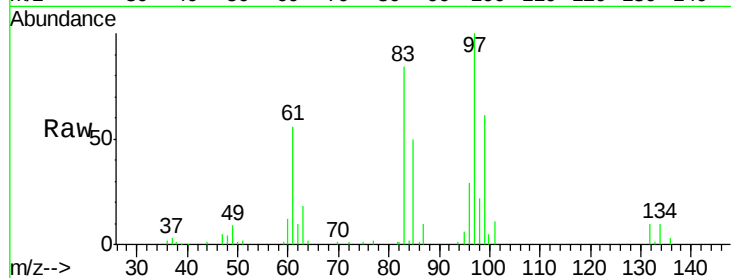




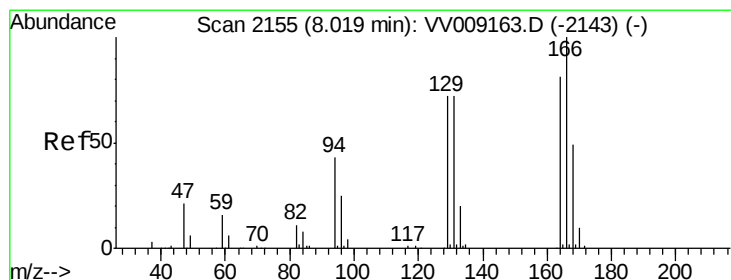
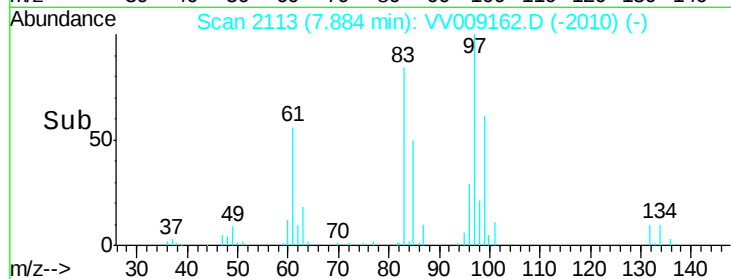
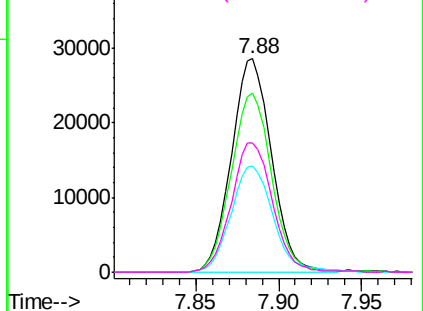
#46
1,1,2-Trichloroethane
Concen: 24.524 ug/L
RT: 7.88 min Scan# 2113
Delta R.T. -0.00 min
Lab File: VV009162.D
Acq: 04 Jan 2019 15:16

Instrument :
MSVOA_V
ClientSampled :
VICV69

Tot Ion:	97	Resp:	48309
Ion	Ratio	Lower	Upper
97	100		
83	83.8	56.0	104.0
85	49.6	36.5	67.9
99	60.8	43.5	80.9



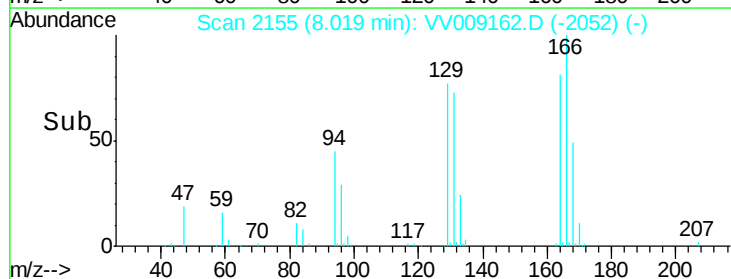
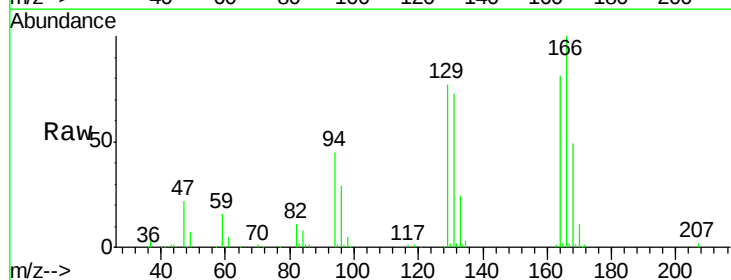
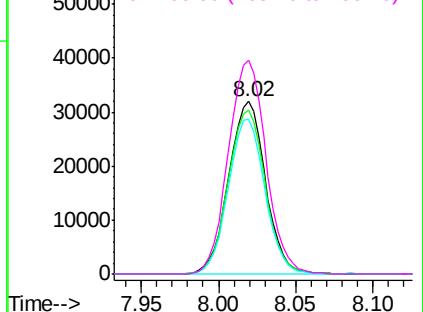
Abundance Ion 97.00 (96.70 to 97.70): VV009162.D (-2100) (-)

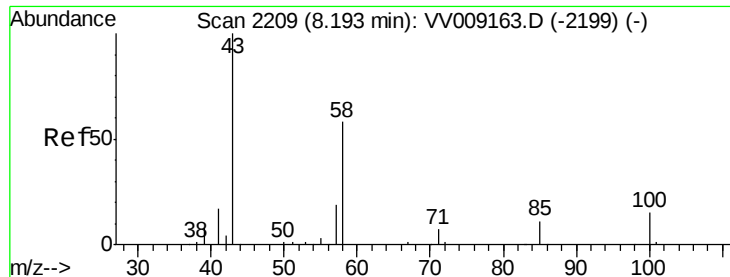


#47
Tetrachloroethene
Concen: 22.875 ug/L
RT: 8.02 min Scan# 2155
Delta R.T. -0.00 min
Lab File: VV009162.D
Acq: 04 Jan 2019 15:16

Tgt Ion:	164	Resp:	52795
Ion	Ratio	Lower	Upper
164	100		
129	95.0	63.5	117.9
131	90.2	63.2	117.4
166	124.0	88.0	163.4

Abundance Ion 164.00 (163.70 to 164.70): VV009162.D (-2052) (-)

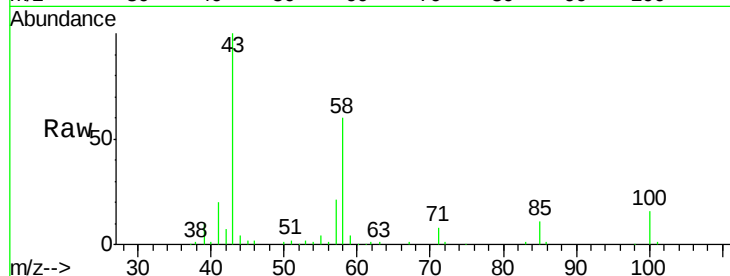




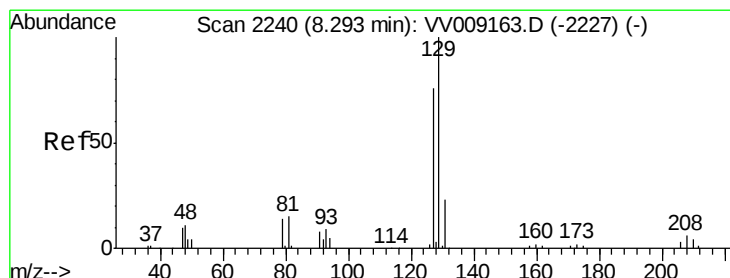
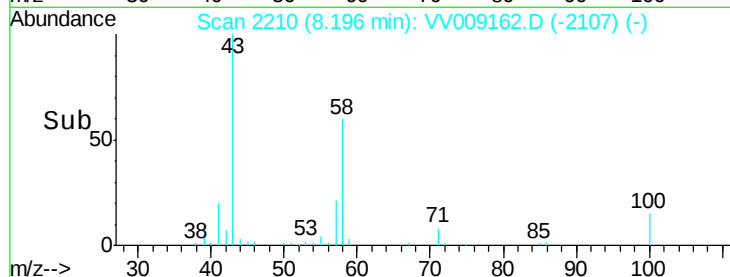
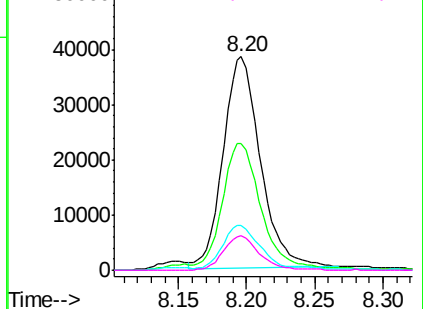
#49
2-Hexanone
Concen: 46.536 ug/L
RT: 8.20 min Scan# 2210
Delta R.T. -0.00 min
Lab File: VV009162.D
Acq: 04 Jan 2019 15:16

Instrument :
MSVOA_V
ClientSampled :
VICV69

Tot Ion: 43 Resp: 72758
Ion Ratio Lower Upper
43 100
58 61.5 46.7 70.1
57 19.8 15.5 23.3
100 15.6 12.8 19.2

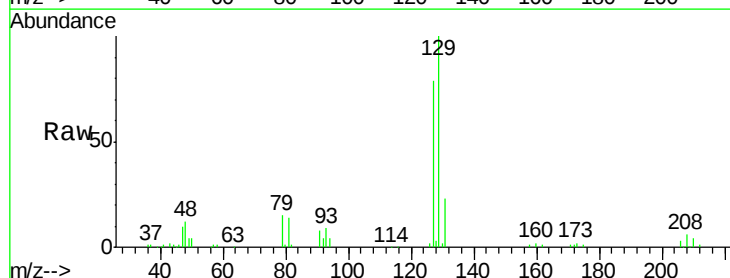


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

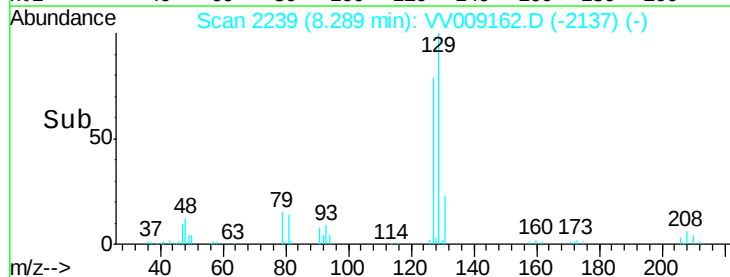
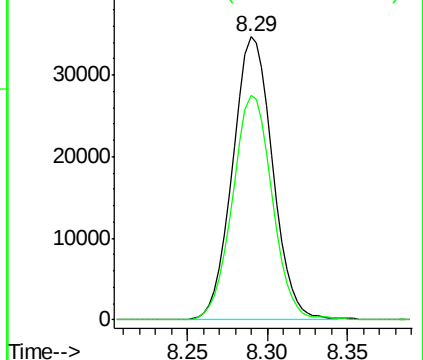


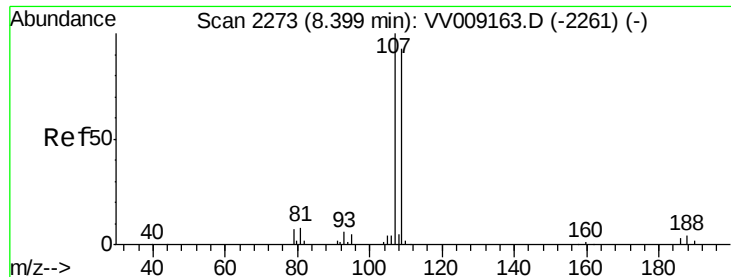
#50
Dibromochloromethane
Concen: 24.401 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV009162.D
Acq: 04 Jan 2019 15:16

Tgt Ion: 129 Resp: 59049
Ion Ratio Lower Upper
129 100
127 79.2 53.1 98.7



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#51

1,2-Dibromoethane

Concen: 24.159 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

Instrument :

MSVOA_V

ClientSampleId :

VICV69

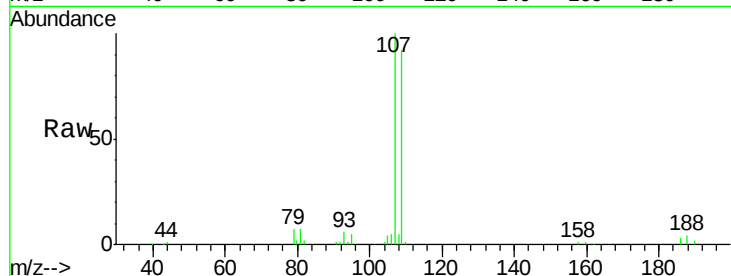
Tot Ion:107 Resp: 49762

Ion Ratio Lower Upper

107 100

109 92.0 63.6 118.0

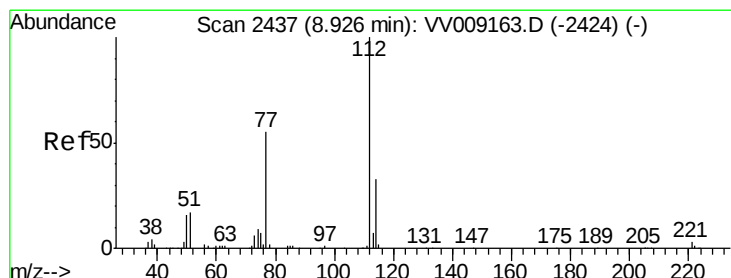
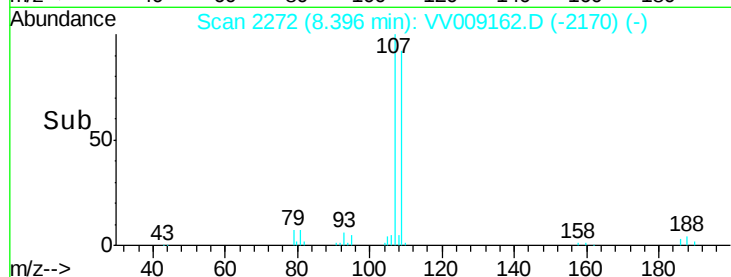
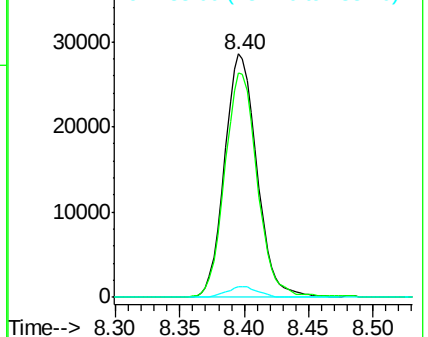
188 4.3 3.3 4.9



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 23.320 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

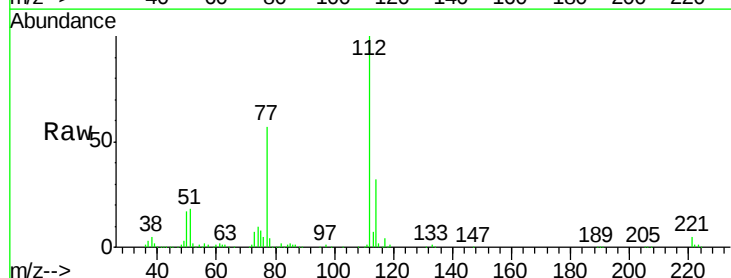
Tgt Ion:112 Resp: 159520

Ion Ratio Lower Upper

112 100

77 56.6 44.6 66.8

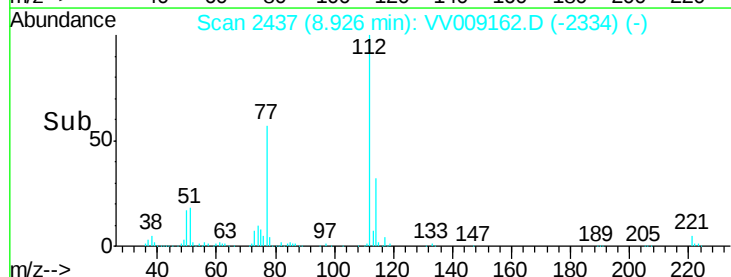
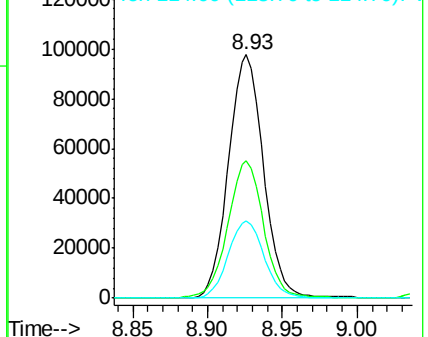
114 31.9 22.5 41.9

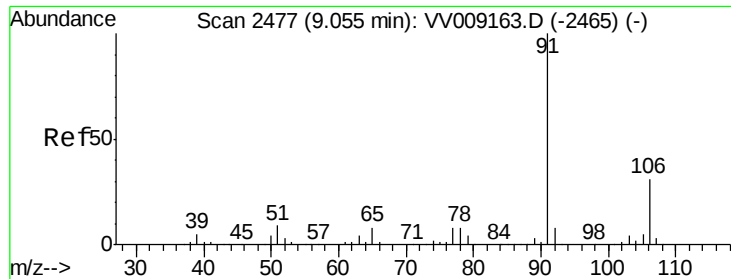


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 23.880 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

Instrument :

MSVOA_V

ClientSampleId :

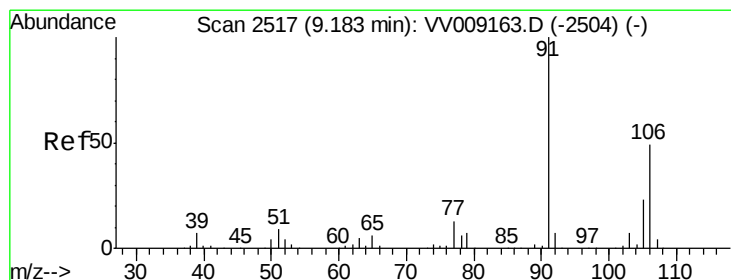
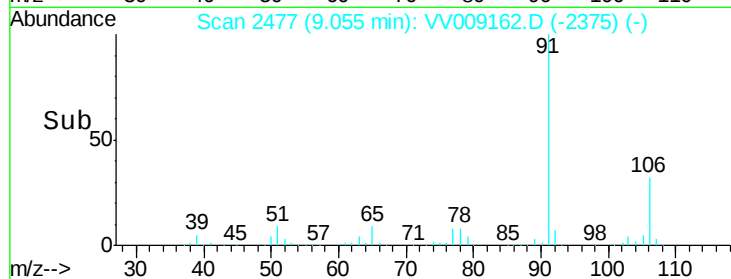
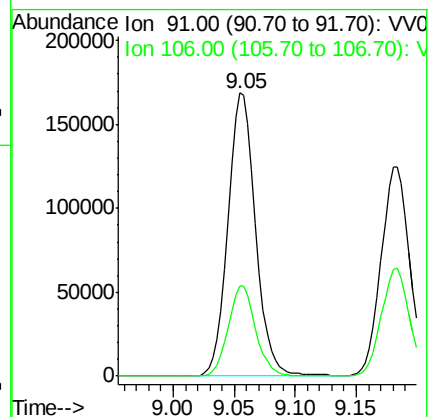
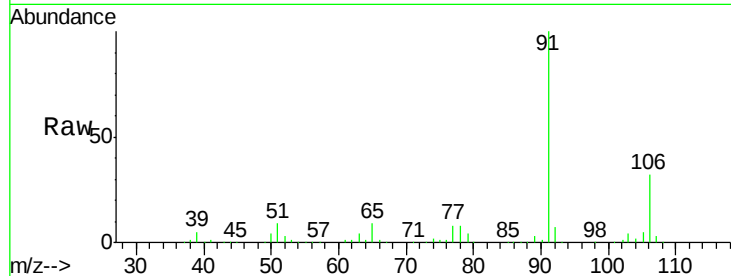
VICV69

Tot Ion: 91 Resp: 269235

Ion Ratio Lower Upper

91 100

106 31.6 22.5 41.9



#54

m,p-Xylene

Concen: 23.421 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. -0.00 min

Lab File: VV009162.D

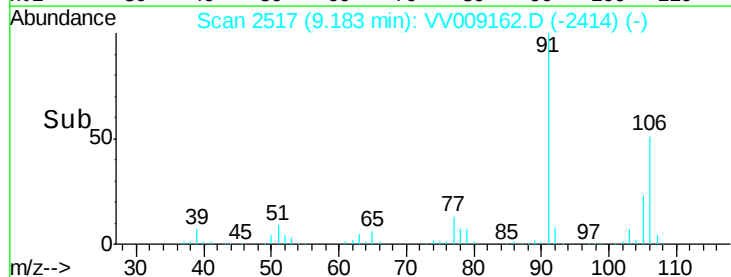
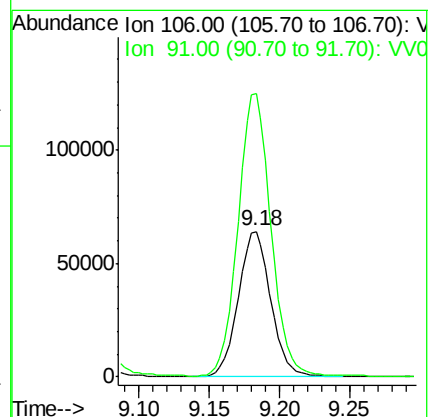
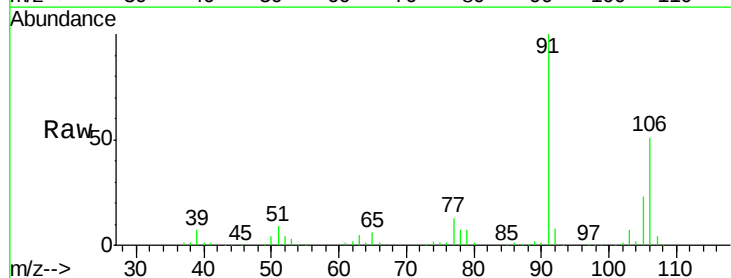
Acq: 04 Jan 2019 15:16

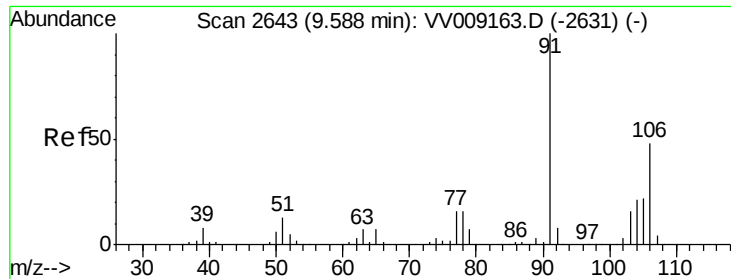
Tgt Ion: 106 Resp: 102881

Ion Ratio Lower Upper

106 100

91 194.5 138.9 257.9

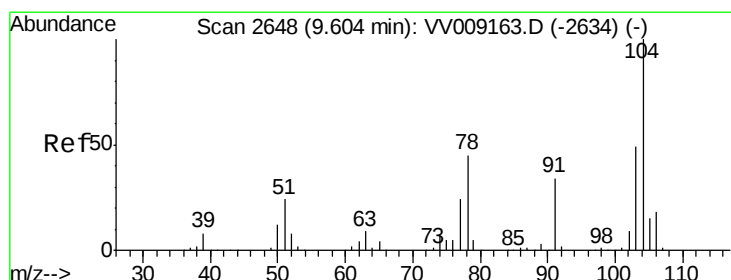
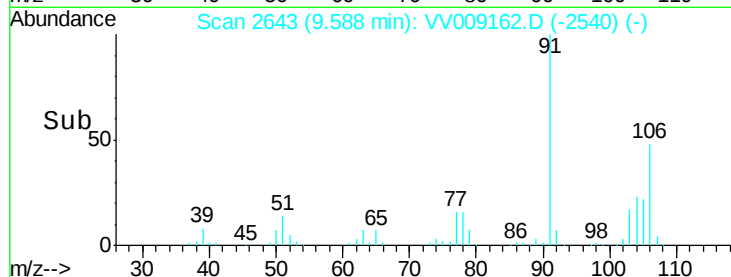
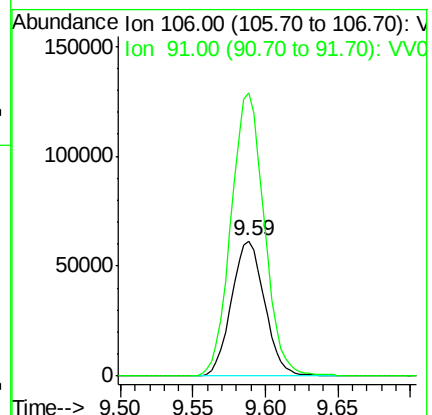
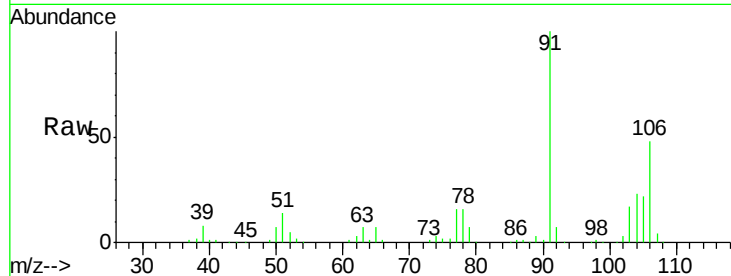




#55
o-xylene
Concen: 24.064 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. -0.00 min
Lab File: VV009162.D
Acq: 04 Jan 2019 15:16

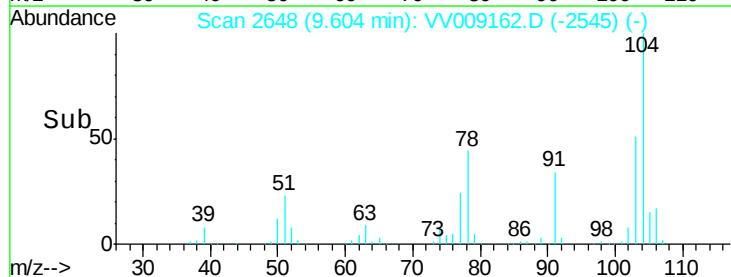
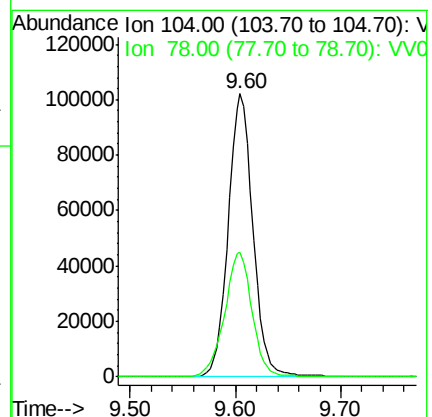
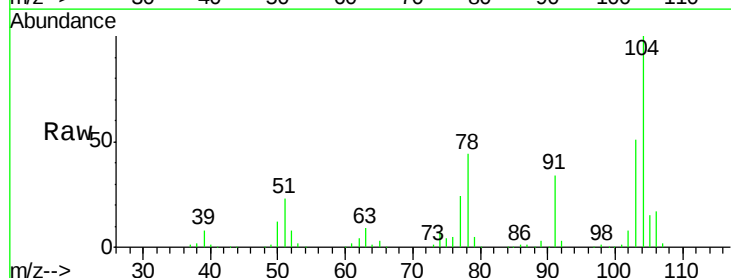
Instrument :
MSVOA_V
ClientSampleId :
VICV69

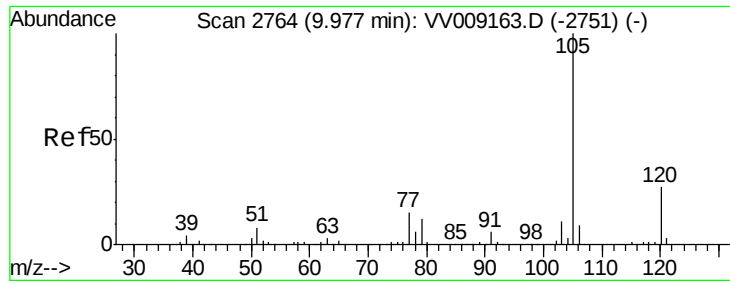
Tot Ion:106 Resp: 97737
Ion Ratio Lower Upper
106 100
91 209.6 148.7 276.1



#56
Styrene
Concen: 24.180 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. -0.00 min
Lab File: VV009162.D
Acq: 04 Jan 2019 15:16

Tgt Ion:104 Resp: 165650
Ion Ratio Lower Upper
104 100
78 44.0 31.6 58.8





#57

Isopropylbenzene

Concen: 24.018 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

Instrument :

MSVOA_V

ClientSampleId :

VICV69

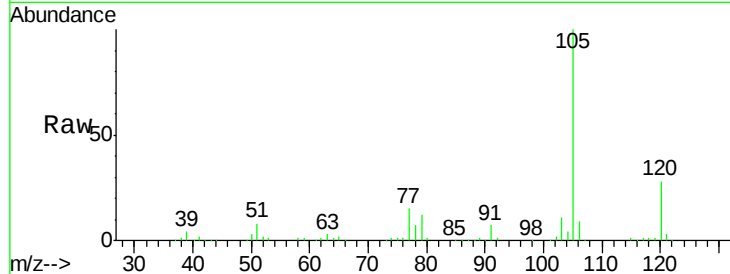
Tot Ion:105 Resp: 270664

Ion Ratio Lower Upper

105 100

120 27.1 21.9 32.9

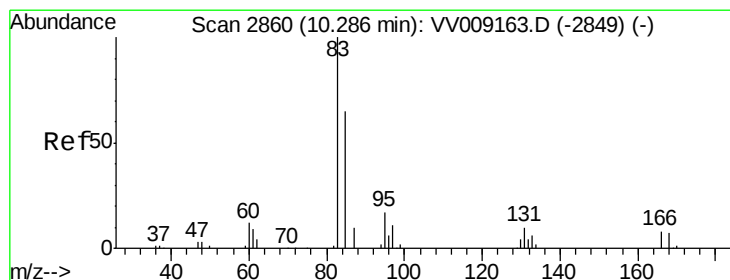
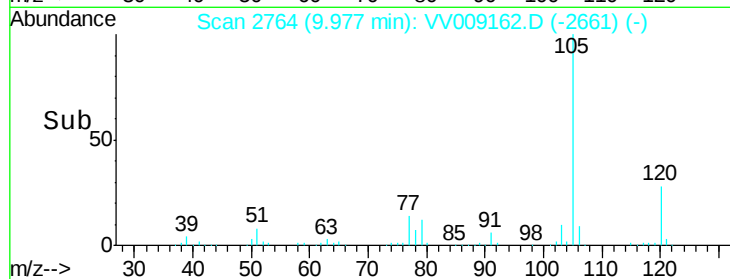
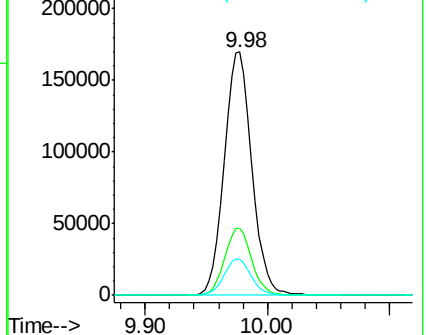
77 14.7 12.1 18.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 24.222 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

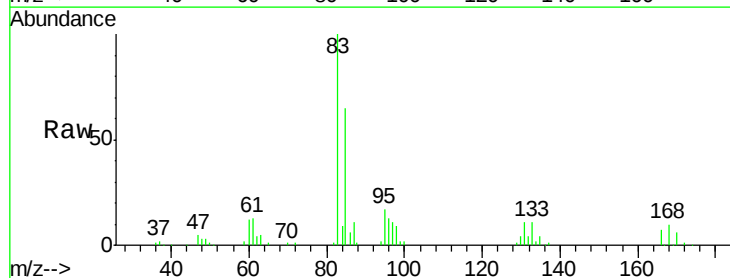
Tgt Ion: 83 Resp: 63929

Ion Ratio Lower Upper

83 100

85 64.6 45.4 84.2

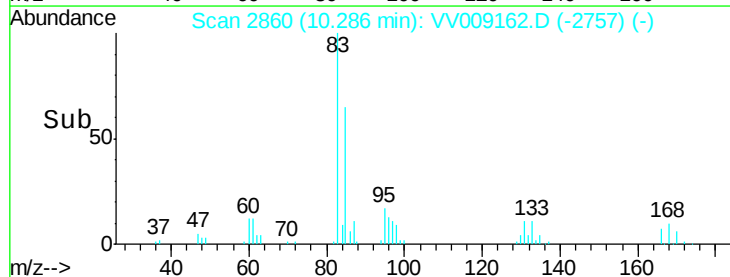
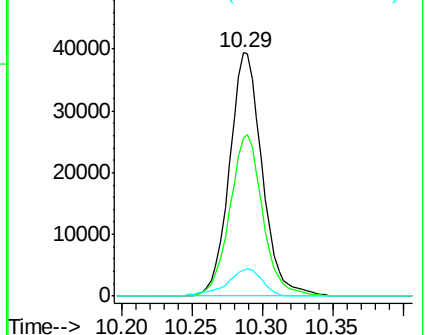
131 10.9 9.4 14.0

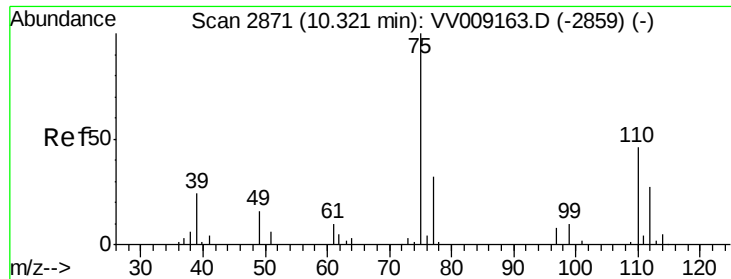


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

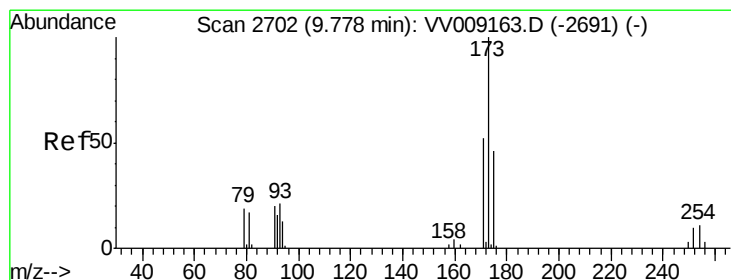
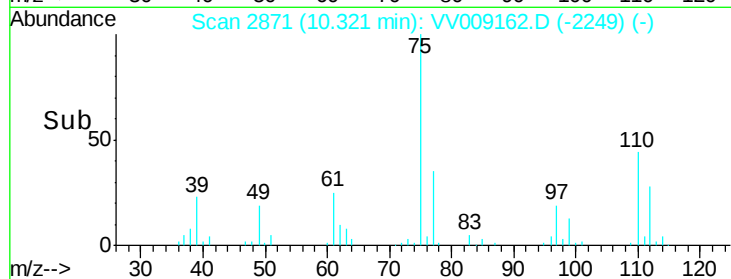
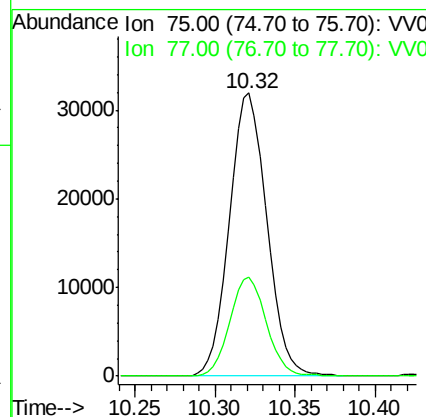
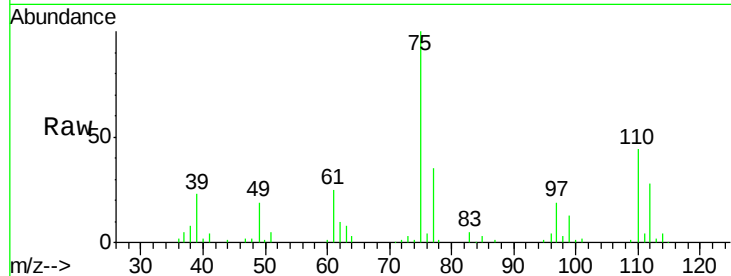




#59
 1,2,3-Trichloropropane
 Concen: 24.180 ug/L
 RT: 10.32 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VV009162.D
 Acq: 04 Jan 2019 15:16

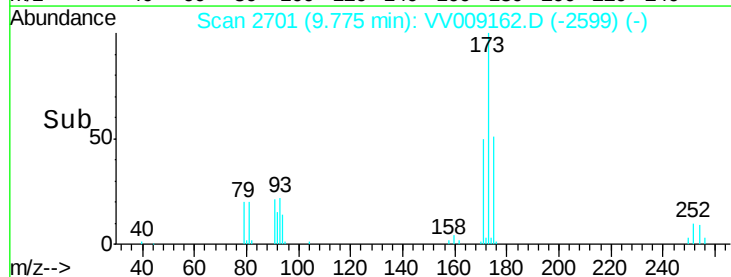
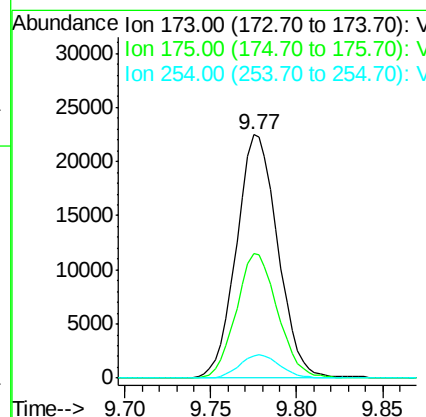
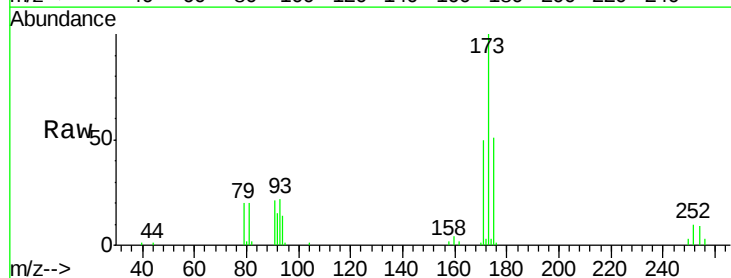
Instrument :
 MSVOA_V
 ClientSampled :
 VICV69

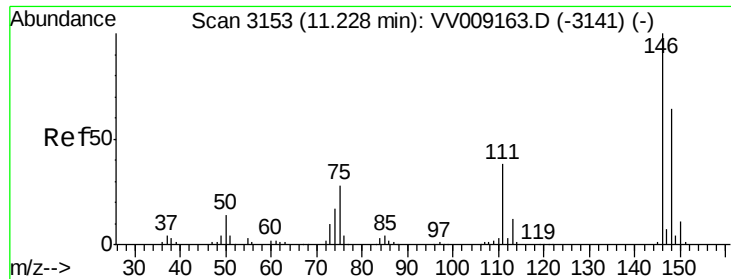
Tot Ion: 75 Resp: 51008
 Ion Ratio Lower Upper
 75 100
 77 34.1 25.0 37.6



#62
 Bromoform
 Concen: 24.320 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. -0.00 min
 Lab File: VV009162.D
 Acq: 04 Jan 2019 15:16

Tgt Ion: 173 Resp: 37530
 Ion Ratio Lower Upper
 173 100
 175 51.1 38.4 57.6
 254 9.3 8.0 12.0

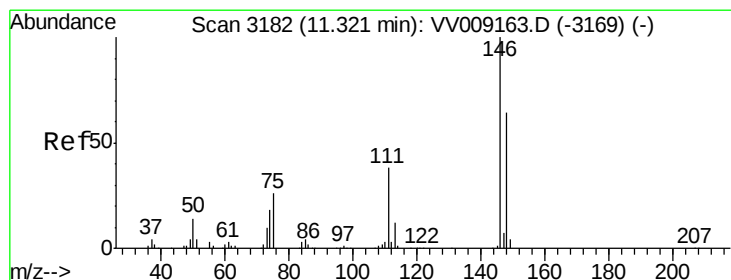
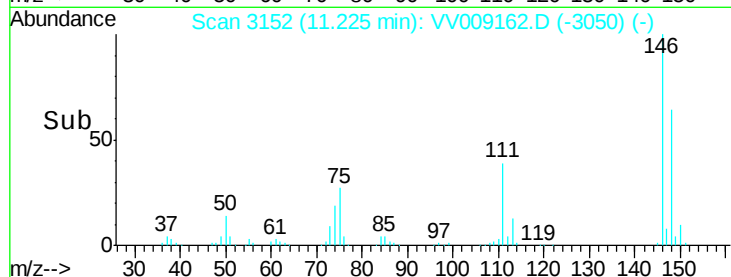
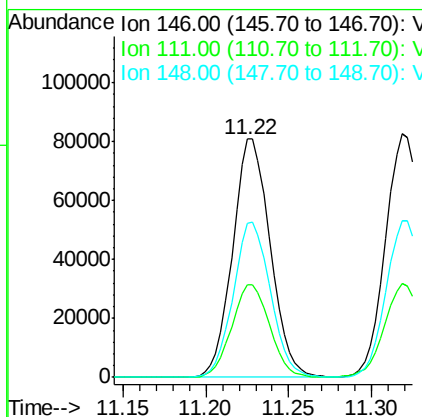
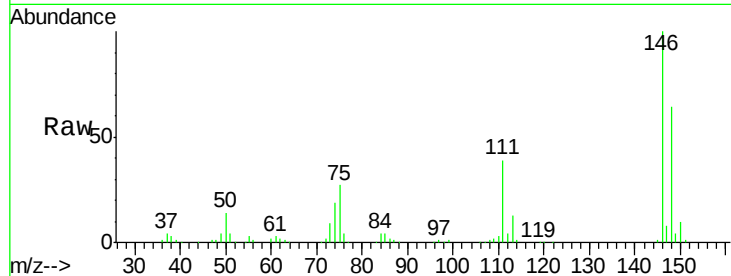




#63
 1,3-Dichlorobenzene
 Concen: 23.285 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. -0.00 min
 Lab File: VV009162.D
 Acq: 04 Jan 2019 15:16

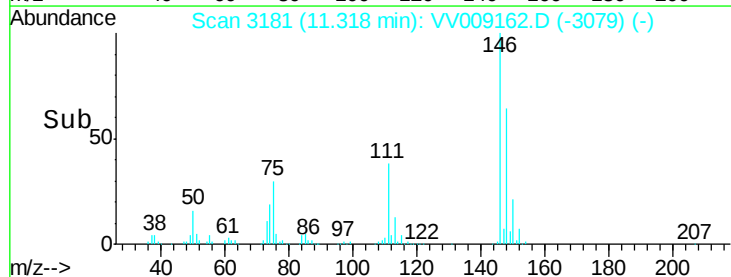
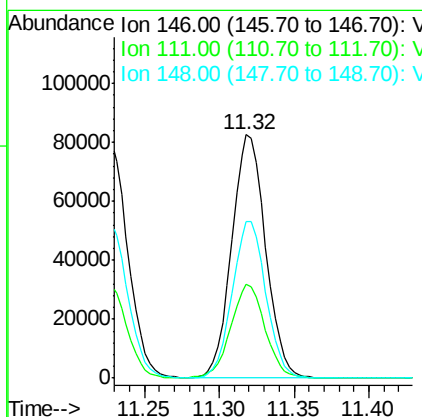
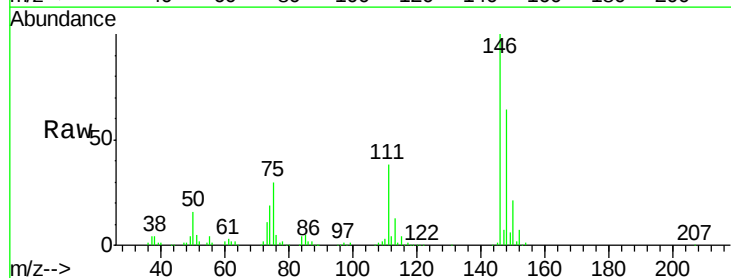
Instrument :
 MSVOA_V
 ClientSampled :
 VICV69

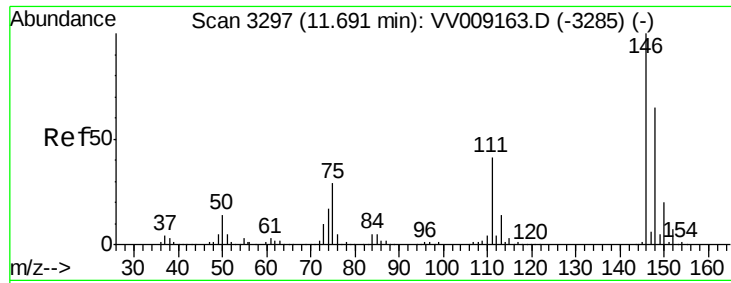
Tot Ion:146 Resp: 128196
 Ion Ratio Lower Upper
 146 100
 111 38.7 28.0 52.0
 148 64.4 45.6 84.8



#64
 1,4-Dichlorobenzene
 Concen: 22.682 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV009162.D
 Acq: 04 Jan 2019 15:16

Tgt Ion:146 Resp: 130171
 Ion Ratio Lower Upper
 146 100
 111 38.5 26.0 48.4
 148 64.4 43.4 80.6





#65

1,2-Dichlorobenzene

Concen: 23.490 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

Instrument :

MSVOA_V

ClientSampled :

VICV69

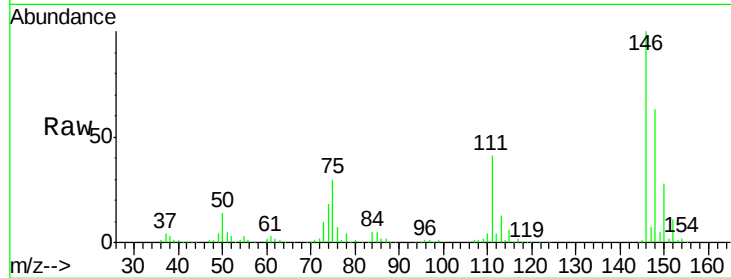
Tot Ion:146 Resp: 123194

Ion Ratio Lower Upper

146 100

111 41.3 32.2 48.4

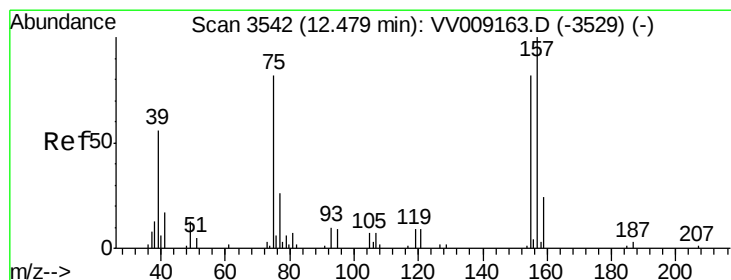
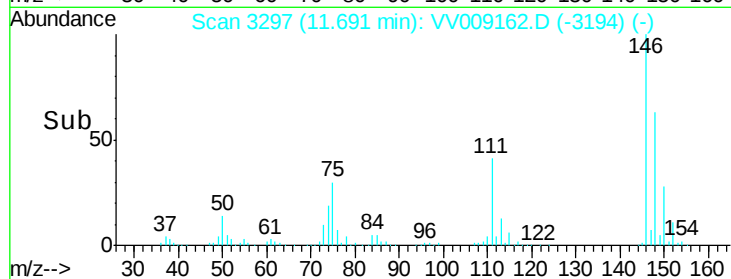
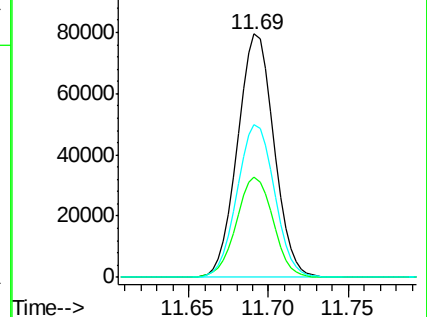
148 62.6 50.4 75.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 25.083 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

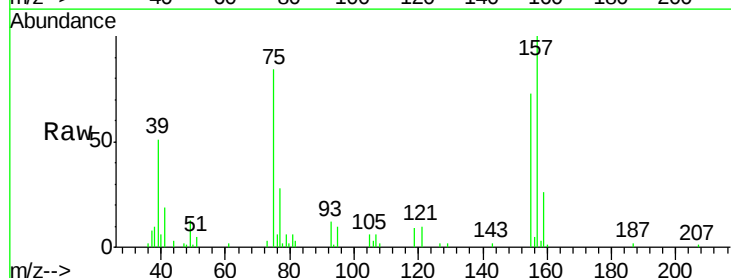
Tgt Ion: 75 Resp: 13657

Ion Ratio Lower Upper

75 100

157 119.6 96.9 145.3

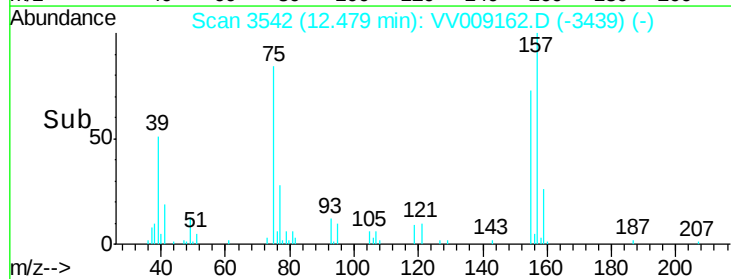
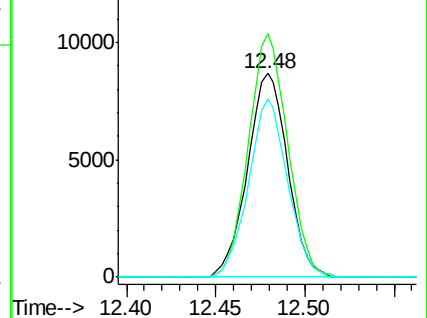
155 87.3 68.0 102.0

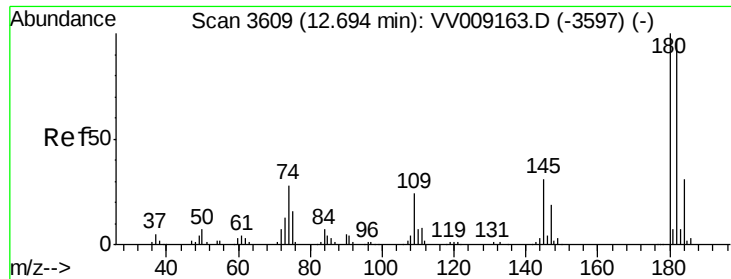


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

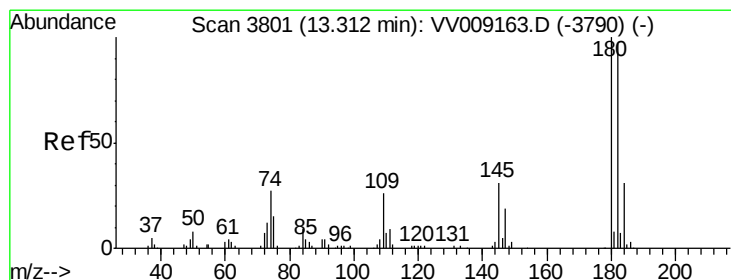
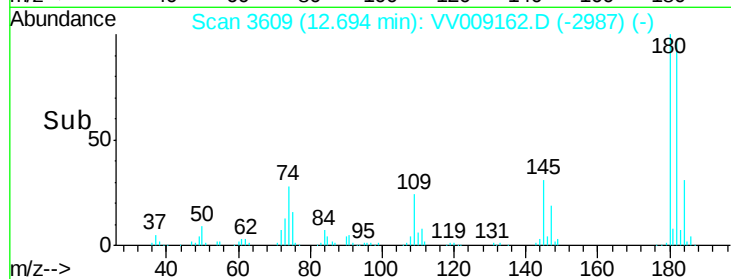
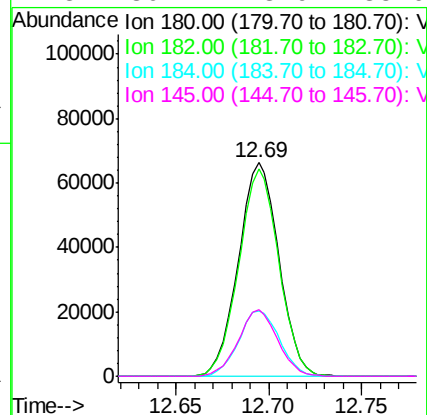
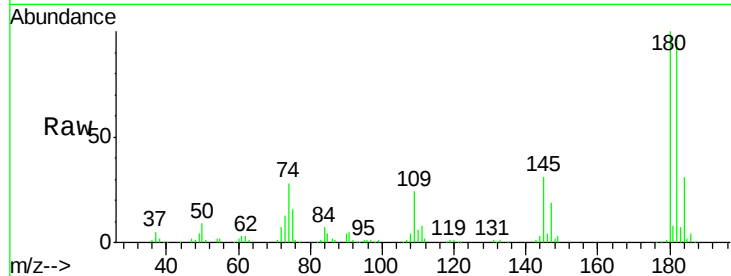




#67
 1,3,5-Trichlorobenzene
 Concen: 22.504 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV009162.D
 Acq: 04 Jan 2019 15:16

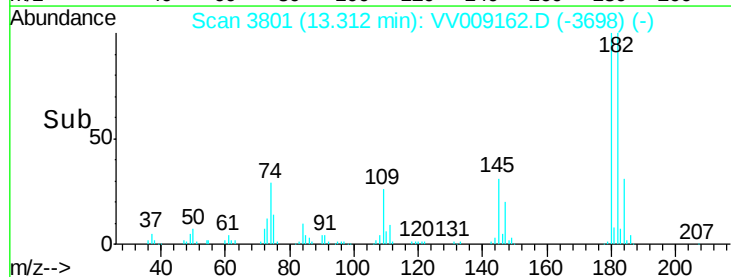
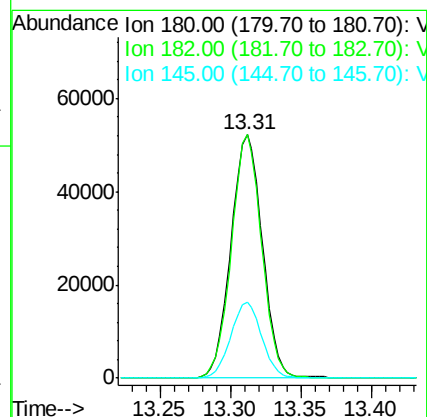
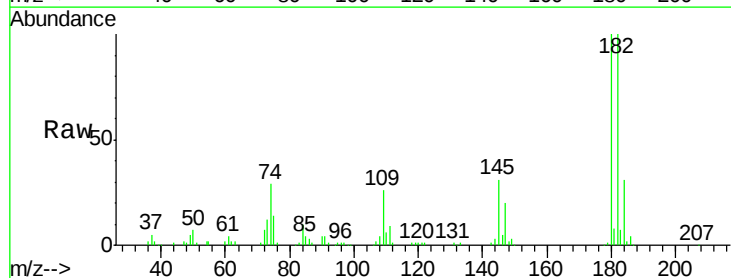
Instrument :
 MSVOA_V
 ClientSampleId :
 VICV69

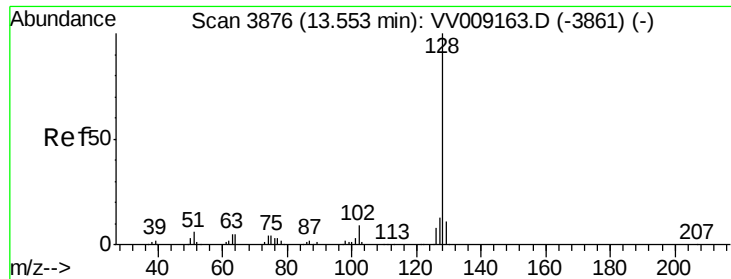
Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	75.3	112.9
184	31.0	24.6	37.0
145	30.4	23.9	35.9



#68
 1,2,4-trichlorobenzene
 Concen: 22.522 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. -0.00 min
 Lab File: VV009162.D
 Acq: 04 Jan 2019 15:16

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.2	114.4
145	30.6	25.4	38.0





#69

Naphthalene

Concen: 22.644 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

Instrument :

MSVOA_V

ClientSampleId :

VICV69

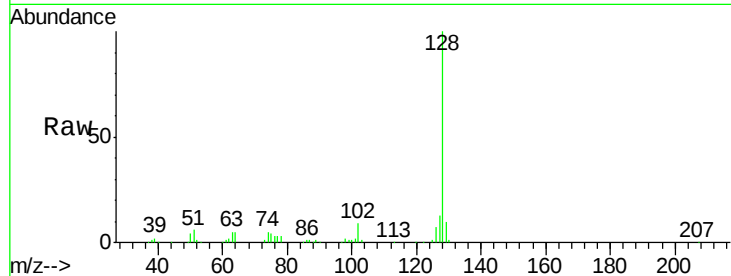
Tot Ion:128 Resp: 166695

Ion Ratio Lower Upper

128 100

129 10.7 9.0 13.4

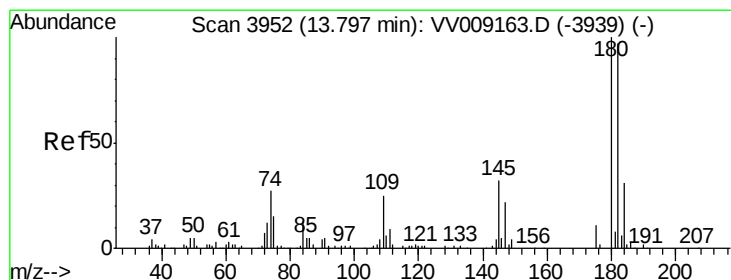
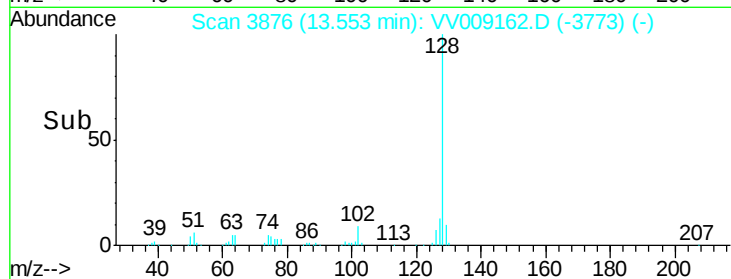
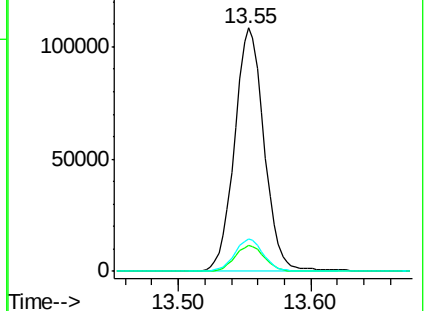
127 13.0 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 23.000 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. -0.00 min

Lab File: VV009162.D

Acq: 04 Jan 2019 15:16

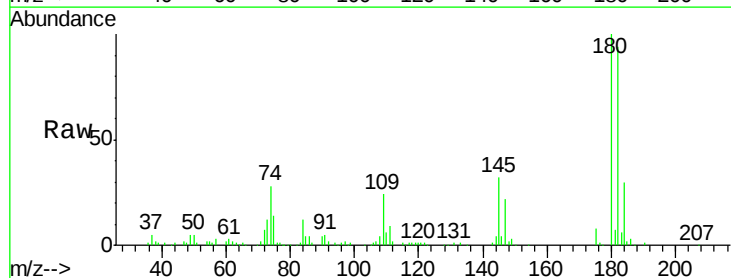
Tgt Ion:180 Resp: 76286

Ion Ratio Lower Upper

180 100

182 94.4 74.4 111.6

145 32.2 25.7 38.5



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

